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FIELD NOTES

45th CHRISTMAS BIRD COUNT

(Report for Christmas 1944)

Edited by Margaret B. Hickey

Almost 2125 persons participated in the 1944 Christmas Bird Count. This seems to be a record total, and may be compared with 1840 in 1943 and 1620 in 1942. Of the many ornithologists in the armed forces abroad, only a scattered few were able to find sufficient time to send in lists. Lt. (j.g.) J. O. Stevenson, U.S.N.R., managed to get ashore for part of one day in the Marianas; Pvt. Milton L. Seibert, U. S. Army, whose 1943 report came from Italy, this year managed to count birds on five acres in France.

When the bookkeeping of this undertaking was completed, it indicated that 282 different lists had been submitted (327 in both 1940 and 1941, 250 in 1942, and 300 in 1943). An all-time high of close to 5,490,000 individual birds were partially estimated or actually counted (more than double last year's figure of 2,555,000). More than half of this total (over 3,710,000 individuals) consisted of mallards and pintails! The Sacramento National Wildlife Refuge in California, with its estimate of about 3,024,000 individuals, appears to have set some kind of record for a single list.

Honors for the longest list of species and subspecies is switched this year from Charleston, S. C., to Los Angeles, Calif., with 132 (123 in 1943). Charleston was not far behind with 129 (128 in 1943). The third top list was obtained in the Panama Canal Zone, where an ocean-to-ocean count amassed a total of 124 species and subspecies. Other lists over 100 were reported from San Diego, Calif. (110), Santa Catalina Mountains, Ariz. (108), St. Marks National Wildlife Refuge, Fla. (107), and Cape May, N. J. (102).

The dramatic transcontinental count by Dr. Arthur A. Allen *et al.* in the Canal Zone was virtually matched farther north by Capt. Ben B. Coffey of Memphis, Tenn., who, on December 23, made a count at Palo Alto, Calif., and on Decem-

ber 25 another at Mill Neck, Long Island, N. Y. Parenthetically, we might add that Capt. Coffey also participated in the group counts from San Francisco, Calif., and Bronx-Westchester, N. Y.

Some sort of record for an auspicious morning start was enjoyed by H. B. McConnell of Cadiz, Ohio, who this year made his 45th consecutive Christmas count. Just as Mr. McConnell was about to get into his car, a pipit walked into the garage!

It is puzzling to note, year after year, occasional reports of Swainson's hawks in the West. The A.O.U. *Check-List* states that this species "winters in southern South America, only occasionally north of the Equator." In most cases, the Christmas records are submitted with no comments that would indicate the observers were aware of the bird's winter status. One hopes that future reports of this species anywhere in the United States in winter will be accompanied by a detailed description of the diagnostic characters that were noted in the field and the conditions under which the birds were seen.

Once more we would like to express our sincere thanks to those participants who, through their contributions of 10¢ or more per person, became members of the Christmas Bird Count Club. The expenses of printing this supplement have thus been defrayed to the extent of \$120.36. This represents a contribution of 5½¢ per observer. We hope we are not being overly optimistic in aiming for 100 per cent enrollment in 1945.

About one-half of the census reports are still being retyped, rearranged, or held up for further information by an editor whose hair is becoming prematurely gray. Not all these changes could be brought to the attention of participants before the supplement went to press, and we hope that co-operators will note for future reference any editorial changes made in their copy.

TINIAN, MARIANAS ISLANDS (offshore, gardens, and hedgerows of town).—Jan. 4; 9 A.M. to 3 P.M. Warm; total miles, 19 (15 by water, 4 on foot). Laysan (?) albatross, 3 (dark back, white underparts, head all or mainly white); white-faced shearwater (?), 1; red-tailed tropic-bird, 1; fairy tern (*Gygis alba*), 18; reef heron, 1; Chinese least bittern, 1; moorhen, 1; golden plover, 2; Philippine turtle dove, 35; white-collared kingfisher, 2; bridled white-eye, 14. TOTAL, 11 species; 79 individuals. Observations made under somewhat adverse conditions. (Seen elsewhere on Dec. 25: black-naped tern, 2; white-capped noddy, 25; wandering tattler, 5; turnstone, 7.)—LT. (j.g.) JAMES O. STEVENSON, USNR.

EASTERN FRANCE (flat suburban area with gardens, small parks, fields, interspersed with small marshes and traversed by canals).—Dec. 25; 9 A.M. to 4:30 P.M. Clear and cold; max. temp. about 35°. Total area covered, about 5 acres. European sparrow hawk, 1; pheasant (sp.), 2; rook, 10; shrike (sp.), 1; great titmouse, 5; black-capped chickadee [= marsh-tit or willow-tit—Ed.], 3; blue titmouse, 2; wren, 2; European goldfinch, 15; chaffinch, 15; house sparrow, 25; European blackbird, 20; European robin, 3. TOTAL, 13 species; 104 individuals.—PFC. MILTON L. SEIBERT (Oakland, Calif.).

PANAMA CANAL ZONE (a transcontinental bird count, from ocean to ocean: Chiva-chiva Rd. through jungle, by car to Old Panama, ocean tidal flats at Old Panama, by car to Gamboa and the Chagres River, by launch along the Chagres River, by car to mouth of the Chagres on the Caribbean, along jungle road west of the Chagres for 5 miles, and return to colon).—Dec. 23; 6 A.M. to 6 P.M. Rain from 6:20 to 9 A.M., then cloudy with light showers; temp. about 80°. Six observers in 2 parties. The actual jungle covered probably did not exceed 8 miles and the river 3 miles, but the distance across the Isthmus is at least 60 miles and the car mileage greatly in excess of this. The count was made mostly from the car, with short stops in promising places. The frequent showers kept many birds inactive, relatively few individuals were seen, and many fairly common species were missed. Pileated tinamou, 2; short-billed pigeon, 1; plain-breasted ground dove, 10; blue ground dove, 10; Verreaux's dove, 4; coot, 4; Florida gallinule, 1; black-bellied plover, 1; semipalmated plover, 3; Hudsonian curlew, 6; willet, 4; lesser yellow-legs, 1; spotted sandpiper, 5; semipalmated and western sandpipers, 5000; black jacana, 6; great blue heron, 1; Am. egret, 5; snowy egret, 25; Louisiana heron, 4; little blue heron, 50; green heron, 1; lesser scaup, 2; laughing gull, 100; royal tern, 15; black tern, 1; brown pelican, 25; Brazilian cormorant, 20; man-o'-war-bird, 10; black vulture, 800; turkey vulture, 150; marsh hawk, 1; broad-winged hawk, 8; sparrow hawk, 14; osprey, 1; Tovi parrakeet, 20; Salvin's parrot, 20; Panama parrot, 4; blue-headed parrot, 8; ringed kingfisher, 2; Amazon king-

fisher, 1; great rufous motmot, 2; parague, 12; smoky swift, 10; Chapman's swift, 500; Cayenne swift, 2; dusky hermit, 1; Jacobin hummingbird, 1; Rieffer's hummingbird, 2; Panama hummingbird, 2; Barrot's fairy, 1; unidentified hummingbirds, 20; graceful trogon, 1; white-tailed trogon, 1; Massena trogon, 3; Central American squirrel cuckoo, 3; greater ani, 4; ani and groove-billed ani, 33; short-keeled toucan, 12; Swainson's toucan, 3; collared araçari, 3; Wagler's woodpecker, 1; Pucheran's woodpecker, 1; Malherbe's (ivory-billed) woodpecker, 1; Panama pileated woodpecker, 1; black-crested antshrike, 2; slaty antshrike, 1; Tyrannine antbird, 3; Sclater's antbird, 1; Panama anthrush, 1; streaked-headed woodhewer, 1; northern Tody flycatcher, 4; Riker's yellow-crowned tyrannulet, 1; Cayenne flycatcher, 4; Colombian flycatcher, 2; short-legged wood pewee, 1; Panama flycatcher, 1; Lichtenstein's kingbird, 20; fork-tailed flycatcher, 1; Natterer's cotinga, 2; mangrove swallow, 10; barn swallow, 1; gray-breasted martin, 25; Panama rough-winged swallow, 20; Panama wren, 2; tawny-bellied wren, 1; Panama black-billed wren, 2; Panama house wren, 4; Bonaparte's thrush, 4; Panama shrikevireo, 2; black and white warbler, 1; yellow warbler, 3; chestnut-sided warbler, 4; bay-breasted warbler, 4; northern water-thrush, 1; Sclater's warbler, 2; buff-rumped warbler, 1; Panama blue grosbeak, 2; slate-colored seedeater, 1; Hick's seedeater, 4; blue-black grassquit, 4; Panama buff-throated saltator, 2; Panama streaked saltator, 1; Lafresnaye's sparrow, 3; Mexican bananaquit, 1; blue honeycreeper, 2; northern green honeycreeper, 1; thick-billed euphonia, 2; plain-colored tanager, 3; Mrs. Wilson's tanager, 8; blue tanager, 5; black-winged palm tanager, 3; yellow-rumped tanager, 4; Panama crimson-backed tanager, 4; summer tanager, 2; Panama thrush tanager, 5; Wagler's oropendula, 2; Lawrence's cacique, 5; small-billed cacique, 2; Prevost's cacique, 1; orchard oriole, 1; Giraud's oriole, 5; great-tailed grackle, 6. TOTAL, 124 species and subspecies; about 7174 individuals. The names used are those of the *Field Book of Birds of the Panama Canal Zone* by Bertha B. Sturgis, with the exception of 4 species omitted from that book—Cayenne swift, coot, Florida gallinule and slaty seedeater.—ARTHUR A. ALLEN, DAVID G. ALLEN, P. PAUL KELLOGG, WOODROW MIDDLEKAUF, WAYNE HALES, OBED HAYCOCK.

OAHAU, T. H. (residential areas in Honolulu, Aiea Heights Ridge, ti leaf slide on upper Manoa trail, Kalihi Flats, Kaupa pond, Kawainui swamp, Kaelepu pond; sandy beach 1%, swamps and lowland streams 39%, farms and roadsides 14%, tidal flats 14%, koa-lehua forest 15%, kukui-guava forest 2%, residential area 15%).—Dec. 17. Partly overcast; temp. 64° to 74° F.; wind NE. 8-12 to 19-24 m.p.h. Fourteen observers in 8 parties. Total hours, 20 (on foot); total miles, 25 (on foot). Man-o'-war-bird, 3; Am. egret, 1; (seen at 150 yds. with 8x binoculars, yellow bill, black legs noted,

size compared with night heron.—H. L. C.); black-crowned night heron, 97; pintail, 36; mallard, 9; ducks (unidentified), 400 (est.); gallinule, 6; coot, 421; Pacific golden plover, 219; ruddy turnstone, 196; wandering tattler, 211; sanderling, 2; Hawaiian stilt, 455 (est.); ring-billed gull, 6; Chinese dove, 95; barred dove, 485; Japanese tit, 1; English sparrow, 172; rice bird, 391; Kentucky cardinal, 52; Brazilian cardinal, 2; house finch, 29; Chinese thrush, 18; Japanese hill robin, 183; mynah, 317; elepaio, 17; white-eye, 124; apapane, 39; amakihi, 27. TOTAL, 28 species; approximately 3824 individuals.—BLANCHE ANDERSON, THOMAS M. BLACKMAN, HAROLD T. CATLIN, HOWARD L. COGSWELL, COL. I. A. DAHL, CHARLES M. DUNN, FRANCIS EVANS, MARY EVANS, LORIN GILL, GRENVILLE HATCH, UNOYO KOJIMA, BERNICE M. KUHN, HAZEL PEPPIN, GUSTAVE SCHUBERT.

CHATHAM, ONT. (mainly along Highways 3 and 4 within 15 miles from Chatham).—Dec. 28; 8:30 A.M. to 5:30 P.M. Clear; wind moderate, W. to NW; temp. 15° at start; 15-18-in. snow on the level, with drifts 3-4 ft. deep along fence-rows and edges of woods. Thirteen observers in 5 parties, plus 6 others who took notes around their homes. Many choice habitats could not be reached; all roads to the various marshes were blocked. Great blue heron, 1; black-crowned night heron, 3 (B.F.B.); mallard, 176; black duck, 350; gadwall, 2; greater scaup, 15; lesser scaup, 3; golden-eye, 25; Am. merganser, 12; red-breasted merganser, 17; sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 9; red-shouldered hawk, 2; rough-legged hawk, 6; bald eagle, 1; marsh hawk, 9; sparrow hawk, 1; bob-white, 1; pheasant, 12; herring gull, 125; Bonaparte's gull, 25; rock dove, 98; mourning dove, 26; screech owl, 3; great horned owl, 2; long-eared owl, 2; short-eared owl, 1; belted kingfisher, 2; hairy woodpecker, 4; downy woodpecker, 37; horned lark, 25; blue jay, 39; crow, 842+; black-capped chickadee, 10; white-breasted nuthatch, 17; brown creeper, 13; golden-crowned kinglet, 29; cedar waxwing, 10; starling, 276+; English sparrow, 1095+; cowbird, 17; cardinal, 54; pine siskin, 9; goldfinch, 7; towhee, 6; slate-colored junco, 162; tree sparrow, 266+; chipmunk sparrow, 2 (L.J.B., D.H.Y., C.H.H., C.M.A.); swamp sparrow, 1; song sparrow, 15; Lapland longspur, 1; snow bunting, 28. TOTAL, 53 species; about 3897 individuals.—C. M. ANDERSON, D. A. ARNOTT, MELBA BATES, L. J. BOHN, B. F. BRADLEY, H. ENGLISH, W. M. GRAY, C. H. HAND, F. JORDAN, G. MCGARVIN, J. O. MOORE, M. E. MORGAN, G. M. STIRRETT, A. A. and MARY WOOD, H. B. WRESSSELL, D. H. YOUNG, C. H. and PERRY ZAVITZ (members Kent Nature Club and others).

COBOURG, ONT. (Pratt's Pond northeast to Baltimore; open farmland 55%, deciduous farm woodlots 10%, cedar woods 30%, cattail marsh 5%).—Dec. 27; 9 A.M. to 5 P.M. Overcast, with heavy snow after 3 P.M.; temp. 21° to 23°; wind SE, 8-12 m.p.h.; ground covered with 12-18 in. snow; pond

completely frozen, creek partly so. Total hours, 8 (on foot); total miles, 8 (on foot). Cooper's hawk, 1; ruffed grouse, 3; pheasant, 3; downy woodpecker, 1; blue jay, 1; crow, 2; black-capped chickadee, 12; white-breasted nuthatch, 2; golden-crowned kinglet, 1; starling, 1; goldfinch, 21; slate-colored junco, 3; tree sparrow, 88. TOTAL, 13 species; 139 individuals. (Seen in area Dec. 24: meadowlark, 1.)—ALEC LUCAS.

HAMILTON, ONT. (Dundas valley west to Ancaster, Hamilton and Harbor, Beach, Stoney Creek, Burlington, Bronte, Aldershot, Lake Medad; mixed woodland and brush 41%, open farmland 20%, lakeshore, 16%, city and suburbs 15%, pastureland 5%, marshes 3%).—Dec. 31; dawn to dark. Overcast, visibility 50-400 yds.; temp. 30° to 35°; calm; ground covered with 18-24-in. old snow and 2-in. new snow; marshes and harbor frozen, lake open. Twenty-four observers in 14 parties and at 3 separate feeding stations. Total hours, 68; total miles, 100 (on foot). Horned grebe, 3; great blue heron, 1; black duck, 40; canvas-back, 3; greater scaup, 14; lesser scaup, 7; Am. golden-eye, 91; buffle-head, 5; old-squaw, 14; white-winged scoter, 1; ruddy duck, 1 ♀ at 30 yds.—J.A.C.); hooded merganser, 2; Am. merganser, 419 (est.); red-breasted merganser, 12; Cooper's hawk, 5; red-tailed hawk, 5; bald eagle, 4; marsh hawk, 1; sparrow hawk, 2; ruffed grouse, 11; pheasant, 62; glaucous gull, 4; black-backed gull, 68; herring gull, 4319 (est.); ring-billed gull, 4; mourning dove, 1; screech owl, 6; horned owl, 5; flicker, 2; yellow-bellied sapsucker, 1 (G.O.McM.); hairy woodpecker, 14; downy woodpecker, 63; horned lark, 19; blue jay, 46; crow, 1; black-capped chickadee, 139; white-breasted nuthatch, 35; brown creeper, 18; winter wren, 1; robin, 2; golden-crowned kinglet, 22; cedar waxwing, 34; starling, 1489 (est.); English sparrow, 1848 (est.); cardinal, 63; purple finch, 4; goldfinch, 59; slate-colored junco, 318; tree sparrow, 236; white-throated sparrow, 1; swamp sparrow, 4; song sparrow, 31; snow bunting, 405. TOTAL, 53 species; about 9965 individuals.—ERIC W. BASTIN, CLIFFORD BODEN; DONALD, JANET, NEIL, and Mr. and Mrs. R. D. F. BOURNE; M. E. CAMPBELL, Mr. and Mrs. K. COX, J. A. CROSBY, BRUCE FALLS, A. B. JACKSON, H. E. KETTLE, E. MALCOLM, JACK MARTIN, G. O. McMILLAN, E. SMITH, G. NELSON, GEORGE W. NORTH, Mrs. H. C. NUNN, L. STEWART, J. H. WILLIAMS, L. WILLIAMS (members Hamilton Nature Club).

KITCHENER-WATERLOO, ONT. (south to Centreville, Parkway, Blair, and Grand River; west to Westmount woodland; by car northwest to Nith River near Wellesley; north to Breithaupt Park-Bridgeport; south and east to Bridgeport, Grand River, and Breslau).—Dec. 26; 8 A.M. to 6 P.M. Partly cloudy; light snow falling with each of 4 overcasts; a foot of snow on ground, many drifts (2 to about 5 ft. deep); wind W to NW, light to moderate; temp. approximately 12° to 20° to 14°. Fifteen observers in 5 parties. Total miles, about 60 (mostly on foot). Mallard, 50; black duck, 160; pintail, 2; golden-eye, 48; Am. merganser, 46; sharp-shinned hawk, 1; red-tailed hawk, 1; red-shouldered hawk,

1; ruffed grouse, 1; pheasant, 1; herring gull, 8; great horned owl, 2; hairy woodpecker, 3; downy woodpecker, 14; horned lark (subsp.?), 2; blue jay, 27; black-capped chickadee, 180+; white-breasted nuthatch, 13; brown creeper, 15; robin, 1; golden-crowned kinglet, 32; starling, 125+; English sparrow, 350+; cardinal, 26; purple finch, 11; pine siskin, 1; goldfinch, 90; slate-colored junco, 73; tree sparrow, 56; swamp sparrow, 2 (2 locations—first local winter record); song sparrow, 8; snow bunting, 35. TOTAL, 32 species; about 1385 individuals. (Dec. 22: Cooper's hawk, 1; brown thrasher, 1 (first winter; close views).—W. BERGEY, R. BOWMAN, F. W. R. DICKSON, DWIGHT ENGEL, DANIEL HEINRICH, J. and ROBERT HOUGH, G. W. KNECHTEL, DOROTHY KOCH, F. H. MONTGOMERY, K. MOON, ASTRID NIELSON, DONALD RUSSELL, A. and F. A. SHANTZ.

LONDON, ONT. (Thames River valley to point about 10 miles west of city).—Dec. 26; 9 A.M. to 5 P.M. Temp. 16° at start; overcast at first, then clear; 14-in. snow; wind W, 15 m.p.h. Thirty-four observers in 9 parties. Total hours afield, 27 (22 on foot, 5 by car). Am. golden-eye, 44; Am. merganser, 129; sharp-shinned hawk, 2; Cooper's hawk, 2; red-tailed hawk, 7; red-shouldered hawk, 1; Am. rough-legged hawk, 3; bald eagle, 2; marsh hawk, 2; sparrow hawk, 1; pheasant, 12; herring gull, 28; mourning dove, 1; great horned owl, 2; long-eared owl, 3; short-eared owl, 1; belted kingfisher, 2; hairy woodpecker, 1; downy woodpecker, 22; Arctic three-toed woodpecker, 1; blue jay, 22; crow, 2; black-capped chickadee, 108; white-breasted nuthatch, 19; brown creeper, 4; winter wren, 1; golden-crowned kinglet, 8; cedar waxwing, 12; starling, 200; English sparrow, 150; cardinal, 54; purple finch, 7; goldfinch, 16; song sparrow, 4; slate-colored junco, 149; tree sparrow, 85; snow bunting, 200. TOTAL, 37 species; 1307 individuals. (Seen Dec. 27: cowbird, 1, at feeding station).—W. J. ABBOTT, BILL BALDWIN, HAROLD CALVERT, BARRY CAMP, RON CRAWLEY, DON COOPER, MRS. E. M. S. DALE, KATHLEEN FEATHERSTON, TED GARSIDE, FRANCIS GIRLING, JEAN GLACIER, MR. and MRS. HOFFMAN, KEITH HORTON, JOHN KORMOS, ALAN LOUGHREY, HUGH B. MACMAHON, MRS. MARSHALL, KEITH REYNOLDS, G. ROBERSON, TED ROBERTS, STANLEY ROBINSON, A. SHIPLEY, GEORGE and HAROLD SKINNER, HARRY STEVENS, MR. and MRS. STEWART, SANDY STEWART, CHARLES WHITELAW, LANGFORD WILLIAMS, RONNIE WILLIAMS, MRS. R. L. WILLIAMS, BILL WOOD (McIlwraith Ornithological Club).

NORTH BAY, ONT. (Lake Nipissing shore south to Rocky Point; Trans-Canada Highway as far as city dump; Trout Lake road to Lounsbury; Ferguson Highway north to foot of Thibeault Hill; Laurentian Ski Club; airport; city streets with box elder 20%, open country in suburbs 25%, alder thickets 10%, subclimax coniferous forest with aspen and white birch 40%, subclimax deciduous forest 5%).—Dec. 23. Continuous light snow from 10 A.M. to 3:50 P.M., then clearing; temp. 15° to 10°; wind variable between W and S, 4-9 m.p.h.; light fog; ground covered with 6 to 18 in. light drifted snow; all creeks and lakes frozen except rapids on Chipewewa Creek and sewage outlets into Lake Nipissing. Ten observers in 7 parties. Total hours, 33 (9 on

foot, 4 on snowshoes, 20 on skis); total miles, 40 (8 on foot, 2 on snowshoes, 30 on skis). Iceland gull (white wing tips, small beak, short legs; first winter plumage—J.M.S.), 1; hairy woodpecker, 2; downy woodpecker, 4; blue jay, 3; Canada jay, 1; black-capped chickadee, 26; red-breasted nuthatch, 1; starling, 45; English sparrow, 260; evening grosbeak, 11; tree sparrow, 3; snow bunting, 235. TOTAL, 12 species; about 592 individuals.—ROBERT BROWN, ROBERT FRASER, M. G. GOULD, MR. and MRS. ALBERT HANSMAN, MRS. STANLEY HIGGS, BRUCE LORD, V. E. F. SOLMAN, MR. and MRS. J. MURRAY SPEIRS.

OTTAWA, ONT. (radially about city).—Dec. 24; dawn to dusk. Low-level fog, visibility 40 to 200 yds. in A.M., then clearing; 20-in. snow; trees shrouded by heavy hoar frost; wind S, shifting slightly, 1-10 m.p.h.; temp.—7° at 8 A.M., —1.5° at 10 A.M., +15° at 2 P.M.; some open water near rapids. Nineteen observers in 11 parties. Total party hours on foot 59, by car 4. Black duck, 3; Am. golden-eye, 40; Am. merganser, 6; sharp-shinned hawk, 1; sparrow hawk, 2; ruffed grouse, 3; ring-necked pheasant, 56; rock dove, 59; pileated woodpecker, 1; hairy woodpecker, 7; downy woodpecker, 8; Arctic three-toed woodpecker, 1; blue jay, 11; crow, 6; black-capped chickadee, 74; white-breasted nuthatch, 24; red-breasted nuthatch, 2; robin, 1; northern shrike, 3; starling, 520; English sparrow, 1358; redpoll, 67; pine siskin, 19; goldfinch, 67; tree sparrow, 5; snow bunting, 98. TOTAL, 26 species; 2442 individuals.—R. M. ANDERSON, C. H. BENNETT, E. BOURGIGNON, E. BROWN, G. COOCH, R. E. DELURY, J. S. DELURY, J. A. ENSTONE, B. A. FAUVEL, G. H. HAMMOND, T. S. HENNESSY, O. H. HEWITT, HARRISON F. LEWIS, ELIZABETH LEWIS, CLARKE R. LEWIS, HOYES LLOYD, A. E. PORSILD, A. L. RAND, STANLEY RAND (Ottawa Field-Naturalists' Club).

PAKENHAM (LANARK CO.), ONT.—Dec. 27; 8:30 A.M. to 12M., 1 to 4 P.M. Mostly cloudy; light wind, E; 20-in. snow; temp.—6° at 8:30 A.M. to max. of 10°. Observers separate, on skis and snowshoes. Total miles, 12 (on foot). Am. golden-eye, 4; blue jay, 22; black-capped chickadee, 32; white-breasted nuthatch, 5; starling, 8; English sparrow, present; snow bunting, heard. TOTAL, 7 species; 83 individuals. (Dec. 24: downy woodpecker, 1; Dec. 30: evening grosbeak, flock).—EDNA G. and VERA M. ROSS.

RUTHERGLEN, ONT. (24 miles east of North Bay to 10 miles west of Mattawa; settlement at C.P.R. station of Rutherglen, Pimisi Bay near Mattawa River, Kennedy Lake, settlement at C.P.R. station of Eau Claire, Smith's Lake, and Amable du Fond River. Open farmland 30%, coniferous farm woodlots 5%, second-growth forest of mixed coniferous and deciduous trees 65%).—Dec. 24. Clear to partly cloudy; temp.—26° to 18°; wind W veering to SSE, 2-5 m.p.h.; ground covered with 13-in. soft snow; trees heavily coated with hoarfrost which remained almost until end of observations; all fresh water frozen except rapids of Amable du Fond River. One observer. Total hours, 7½ (partly by car and partly by foot); total miles 15. Am. golden-eye, 4; hairy woodpecker, 5; Canada jay, 1; blue jay, 12;

black-capped chickadee, 26; red-breasted nuthatch, 2; English sparrow, 2. TOTAL, 7 species; approximately 52 individuals. (Dec. 22, goshawk, 1.)—LOUISE DE KIRILINE LAWRENCE.

TORONTO, ONT. (Toronto lake shore from Sunnyside beach to the eastern gap, Lambton Woods, west branches of the Don River, and fields along north Bathurst Street; open fields 15%, lake shore 15%, mixed woods 70%).—Dec. 27; dawn to dusk. Overcast, with intermittent moderate snow; temp. 12° to 24°; wind SE, 1-7 m.p.h. in A.M., 8-12 m.p.h. in P.M.; ground covered with 18-in. snow. Five observers in 2 parties. Total hours, 14 (7 by ski, 3 by car, 4 by foot). Mallard, 6; black duck, 10; greater scaup, 1000; golden-eye, 20; old-squaw, 1000; Am. merganser, 7; sparrow hawk, 4; pheasant, 12; great black-backed gull, 5; herring gull, 400; rock dove, 10; short-eared owl, 1; belted kingfisher, 2; downy woodpecker, 4; blue jay, 3; chickadee, 8; white-breasted nuthatch, 1; brown creeper, 1; robin, 7 (including 1 albino); golden-crowned kinglet, 3; cedar waxwing, 10; starling, 75; English sparrow, 150; cardinal, 8; pine siskin, 40; goldfinch, 75; slate-colored junco, 40; tree sparrow, 25; white-throated sparrow, 1; song sparrow, 6. TOTAL, 30 species; about 2934 individuals. (Seen in area Dec. 24: great blue heron, 1; flicker, 1; meadowlark, 1; snow bunting, 100.)—J. A. CROSBY; ROBERT JOHN, and DR. J. W. MACARTHUR; D. L. MACDONALD.

TORONTO, ONT. (Swansea, Humber River valley from St. Clair Ave. to Toronto lake shore; deciduous groves and cattail marshes).—Dec. 27; 9:30 A.M. to 4:30 P.M. Overcast; visibility poor; snow flurries in early A.M.; high wind and snow in late P.M.; temp. 10° to 22°; river mostly frozen. Two observers together. Total hours, 7 (1 on foot); total miles, 17. Mallard, 46; black duck, 350 (est.); old-squaw, 17; goshawk, 1; black-backed gull, 1; herring gull, 12; pheasant, 7; kingfisher, 1; downy woodpecker, 5; blue jay, 9; crow, 3; white-breasted nuthatch, 2; starling, 8; English sparrow, 6; cardinal, 7; slate-colored junco, 18; tree sparrow, 2; song sparrow, 7. TOTAL, 18 species; about 502 individuals.—JOHN W. TOVELL, J. E. HUMPHRIES.

WOODSTOCK-INGERSOLL, ONT.—Woodstock south to Currie, circling large pond with surrounding swamp, woodland, and marsh; Ingersoll west to waterworks, south to Hislop swamp, east to Centreville; woodland surrounding Folden; cedar woods and swamp 34%, deciduous woods 20%, scattered mixed woodland 8%, open field with some open water in river 32%, marsh 4%, cut-over woodland 1%, suburbs 1%.—Dec. 24; 8:45 A.M. to 4 P.M. Mostly cloudy; temp. 6° to 32°; wind ENE, 0-5 m.p.h.; 12-in. powdery snow, drifted deeply at wood edges and slightly crusted in open places; all water frozen except springs and some parts of Thames River. Eleven observers in 4 parties. Total hours, 22½; total miles, 27½ on foot. Am. merganser, 3; Cooper's hawk, 1; Am. rough-legged hawk, 2; ruffed grouse, 6; pheasant, 2; mourning dove, 4; screech owl, 1; belted kingfisher, 2; hairy woodpecker, 3; downy woodpecker, 33; blue jay, 22; crow, 8; black-capped chickadee, 177; white-breasted nuthatch, 10; brown

creeper, 7; golden-crowned kinglet, 23; starling, 812; English sparrow, 1117; cardinal, 25; redpoll, 8; goldfinch, 217; slate-colored junco, 705; tree sparrow, 304; song sparrow, 2; snow bunting, 1000 (est., in 1 flock). TOTAL, 25 species; about 4500 individuals.—R. BROOKFIELD, E. J. DUTTON, DR. W. W. HUGHES, W. KRAGH, G. L. NUTT, G. SCOTT, H. A. SIVYER, S. WHITEFORD, L. and D. ZUFELT, H. MILNES (Woodstock Naturalist Society).

HUDSON HEIGHTS, QUE. (west part of Hudson adjoining Hudson Heights on east, Hudson Heights, Whitlock Golf Club property and vicinity, N. M. Yuile's farm on south side of Highway 17 about 1½ miles south of Como Station; mixed evergreen and deciduous woods 40%, second-growth and brush 20%, open farmland 10%, golf course 10%, village gardens 20%).—Jan. 7; dawn to 5 P.M. Dull; temp. -11° to -1°, (-20° previous day); wind E backing to N, 10-15 m.p.h.; bar. 30.15 to 30.00; snowing from noon; poor visibility; ground covered with 30-in. snow, breakable crust; all water frozen; conditions very unfavorable. Eighteen observers in 4 parties. Total hours, 20½ (16½ on skis, 4 on foot); total miles, 20 (13 on skis, 7 on foot). Ruffed grouse, 3; pileated woodpecker, 1 (Mrs. R.L.P.); hairy woodpecker, 3; downy woodpecker, 4; blue jay, 47; black-capped chickadee, 40; white-breasted nuthatch, 8; starling, 8; English sparrow, 84; redpoll, 12; goldfinch, 1 (6 seen 2 days before); tree sparrow, 8; song sparrow, 2 (very unusual winter resident in Quebec province; identified during previous week, examined on count day at 4 yds. through 8x glasses—G.G.O.); snow bunting, 25. TOTAL, 14 species; 246 individuals. (Seen during count period in area: Am. three-toed woodpecker, 1 [ladder-back clearly seen—Mrs. D.L.M.]; robin, 3 (inc. one previous day when -16°)—MRS. A. BRYAN, AMY CLARKE, JIM F. DAVIS, B. A. LANCEY, MRS. D. L. MACAULAY, DUNBAR and JOHN W. MULLAN, MR. and MRS. GEO. F. OMMANNEY, MRS. R. L. PUXLEY, MRS. GRAEME PYKE, MR. and MRS. GEORGE RILEY, MR. and MRS. C. A. SEATON, ARTHUR TERREAU, N. M. and W. S. YUILE.

MONTREAL, QUE. (Mount Royal, La Salle Woods, Nun's Island, and South Shore from Caughnawaga to Longueuil).—Dec. 17. Snowing almost all day; wind wsw., 25 m.p.h.; visibility poor; temp. 20° to 22°; snow depth 18 ins. Eighteen observers in 5 parties. Total miles, 124 (25 on skis, 4 by boat, 95 by car); total hours, 32. Black duck, 360; Am. golden-eye, 25; Am. merganser, 21; sharp-shinned hawk, 1; sparrow hawk, 2; ring-necked pheasant, 75; great black-backed gull, 3; herring gull, 311; great horned owl, 1; snowy owl, 1; hairy woodpecker, 2; downy woodpecker, 9; black-capped chickadee, 41; white-breasted nuthatch, 4; brown creeper, 11; winter wren, 1; robin, 3; starling, 1600; English sparrow, 500; snow bunting, 132. TOTAL, 20 species; 3103 individuals (partly est.).—Province of Quebec Society for the Protection of Birds.—J. P. ANGLIN, M. BOWER, S. M. CANDLISH, J. A. DECARIE, D. G. ELLIOT, J. D. FRY, G. HIBBARD, H. A. C. JACKSON, J. G. M. LEMOINE, A. R. LEPINGWELL, R. A. OUTHET, D. RYAN, JR., M. SEATH, E. SHERRARD, L. McL. and E. E. TERRILL, V. C. WYNNE-EDWARDS.

QUEBEC, QUE. (same area as 1943 count, plus the following area not previously covered: Plains of Abraham, Spencer Wood, St. Patrick Cemetery, Silvery, Bois Gomin airport, Bois Gomin road and St. Louis road; town suburbs 12%, fields 29%, coniferous forests 8%, deciduous woods 5%, mixed woodlands 41%, shores 5%).—Dec. 27; 8:15 A.M. to 4:30 P.M. Clear until noon, overcast in P.M.; temp. -11° to 6° ; wind NW, 1-7 m.p.h.; 18-24 in. snow on ground; small rivers mostly frozen over, large moving ice fields on St. Lawrence River. Four observers in 4 parties. Total hours, 23 on foot; total miles, 32 on foot. Ruffed grouse, 1; pileated woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 1; blue jay, 1; crow, 3; black-capped chickadee, 73; white-breasted nuthatch, 2; starling, 220; English sparrow, 45; evening grosbeak, 10; common redpoll, 21; snow bunting, 50 (est.). TOTAL, 13 species; about 432 individuals. (Seen in area Dec. 28: sharp-shinned hawk, 1; Dec. 14: purple finch, 1).—MRS. G. LANGEIER, LOUIS A. LORD, LOUIS LEMIEUX, RAYMOND CAYOULTE (La Société Zoologique de Québec).

YORKTON, SASK. (area 15 miles in diameter with Yorkton as center; open farmland 75%, wooded 25%).—Dec. 26; 10 A.M. to 5 P.M. Clear, to cloudy in late P.M.; wind NW, about 8 m.p.h.; only slight sprinkling of snow on fields; temp. -8° at start, 6° at finish. Twelve observers in 6 groups. Total party hours afield, 10 (5 by car, 5 on foot); total party miles, $53\frac{1}{2}$ (47 by car, $6\frac{1}{2}$ on foot). Goshawk, 1; ruffed grouse, 2; sharp-tailed grouse, 39; hairy woodpecker, 2; downy woodpecker, 1; blue jay, 1; Am. magpie, 3; black-capped chickadee, 17; Bohemian waxwing, 39; English sparrow, 525 (est.); snow bunting, 877 (est.). TOTAL, 11 species; about 1507 individuals. One dead Hungarian partridge found on road during census. (Snowy owl noted Dec. 25; great horned owl, Dec. 28; pine grosbeak, Dec. 28; robin seen at close range by 3 observers Dec. 27 and 28).—RAY ADAM, VERNON BARNES, NEIL BLACK, JACK BROWNLEE, W. A. BROWNLEE, BROTHER CLARENCE, C. STUART HOUSTON, S. C. HOUSTON, MRS. J. MECKMA, MICHAEL PRIESTLY, MRS. I. M. PRIESTLY, C. C. SHAW (members Yorkton Natural History Society).

PINKHAM NOTCH, N. H. (to timberline on Mt. Washington, 1200-3800 ft.).—Dec. 29; 10 A.M. to 5 P.M. Clear; moderate to strong NW winds, ground snow covered; temp. 0° to 3° . Total miles, 11 (on foot). Ruffed grouse, 1; hairy woodpecker, 1; downy woodpecker, 2; black-capped chickadee, 75; Acadian chickadee, 5; red-breasted nuthatch, 9; golden-crowned kinglet, 5; purple finch, 2; goldfinch, 36. TOTAL, 9 species; 136 individuals.—STUART K. HARRIS.

BENNINGTON, VT. (Everett orchards; woods on east slope of Mt. Anthony above Everett mansion; along Walloomsac River northwest of Bennington village; 3 feeding stations, 1 in Bennington village and 2 outside; apple orchard 20%, deciduous woods 15%, pine woods 15%, open farmlands along river 30%, feeding stations 20%).—Dec. 24; 8 A.M. to 4:30 P.M. Misty with low clouds; wind NW, less than 1

m.p.h.; temp. 28° to 35° ; ground in open fields covered with 1-3 in. loose snow, 4-6 in. in the woods; still water frozen over, running water open. Six observers in 4 parties. Total hours, 32 (21 on foot, 11 watching feeding stations); total miles, 13 (on foot). Great blue heron, 1; black duck, 2; Am. merganser, 6; Canada ruffed grouse, 3; pheasant, 1; hairy woodpecker, 2; downy woodpecker, 10; blue jay, 13; crow, 15; black-capped chickadee, 17; white-breasted nuthatch, 7; brown creeper, 2; starling, 132; English sparrow, 98; cowbird, 1 (has frequented a feeding station for 2 weeks; identified by 4 observers); pine siskin, 66; goldfinch, 2; slate-colored junco, 4; tree sparrow, 23. TOTAL, 19 species; about 405 individuals.—DR. and MRS. LUCRETIA H. ROSS, MRS. MARGERY LUDLOW, HOWARD NASH, C. W. LUNDOFF, MRS. STELLA HIGGINS.

WELLS RIVER, VT. (portions of Connecticut and Wells River valleys and enclosing ranges of hills; altitude varying from 400-1200 ft.; open fields 35%, river banks, 15%, mixed woodland, 50%).—Dec. 26; 9 A.M. to 5 P.M. Clear; temp. 13° to 18° F.; wind NW, 15-25 m.p.h.; ground covered with 2-4-in. crusted snow; all rapid portions of rivers open. Two observers together. Total hours, 8; total miles, 11 (on foot). Am. golden-eye, 56; Am. merganser, 9; ruffed grouse, 9; hairy woodpecker, 3; downy woodpecker, 1; crow, 10; black-capped chickadee, 98 (16 flocks); white-breasted nuthatch, 1; red-breasted nuthatch, 4; brown creeper, 3; golden-crowned kinglet, 9 (3 flocks); starling, 240 (3 flocks); English sparrow, 5; purple finch, 1; common redpoll, 10 (3 flocks); goldfinch, 5; tree sparrow, 22 (3 flocks); snow bunting, 30. TOTAL, 18 species; 516 individuals.—WENDELL P. SMITH, GEORGE FILLIAN.

BELMONT AND FRESH POND (CAMBRIDGE), MASS. (deciduous woodland 30%, open meadow 20%, ponds 20%, evergreen woodland 15%, residential 15%).—Jan. 1. Fog in A.M., .34-in. rain in P.M.; temp. 45° to 56° ; wind SE, 5-50 m.p.h.; visibility 100-200 yds. most of A.M.; 2-in. snow on ground melted during the day; ponds almost completely closed. Observers mostly in pairs. Total hours, 20; total miles, 28 (20 on foot, 8 in car). Black-crowned night heron, 2; mallard, 5; black duck, 76; Am. merganser, 3; sparrow hawk, 2; pheasant, 12; Iceland gull, 1 (N.H., 2 seen earlier in week by A.R.); black-backed gull, 35; herring gull, 2750; flicker, 5; hairy woodpecker, 1; downy woodpecker, 7; blue jay, 32; crow, 14; chickadee, 79; white-breasted nuthatch, 8; brown creeper, 1; robin, 2; golden-crowned kinglet, 2; starling, 270; English sparrow, 157; meadowlark, 5; purple finch, 2; goldfinch, 9; junco, 144; tree sparrow, 100; white-throated sparrow, 9; swamp sparrow, 3; song sparrow, 29. TOTAL, 29 species; 3765 individuals. (Ring-billed gull, 1; winter wren, 1; and field sparrow, 12 (3 flocks) seen during week).—MR. and MRS. HAROLD BROWN, MRS. FRANCIS DAVIS, MRS. G. A. DREW, GEORGE DREW, KIMBALL ELKINS, MR. and MRS. RICHARD FOSTER, NORMAN HILL, MRS. OLIN INGRAHAM, AUSTEN RIGGS, MR. and MRS. SAMUEL ROBBINS, CHANDLER ROBBINS (Belmont Bird Club).

CAPE ANN, MASS. (Beverly, Essex, Manchester, Gloucester, Rockport; same area as 1930-40, minus Ipswich dunes).—Dec. 31; dawn to sunset. Overcast; intermittent rain; light to moderate s wind; ground snow covered; temp. 30° to 38°. Fourteen observers in 3 parties. Total hours afield, 27; total party miles, 92 (73 by car, 19 on foot). Common loon, 21; red-throated loon, 5; Holboell's grebe, 11; horned grebe, 15; European cormorant, 247; mallard, 8 (feral); black duck, 33; golden-eye, 550; buffle-head, 9; old-squaw, 36; eider, 17; white-winged scoter, 900; surf scoter, 1; Am. scoter, 10; red-breasted merganser, 180; red-tailed hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 1; ruffed grouse, 4; purple sandpiper, 26; sanderling, 3; glaucous gull, 1; Iceland gull, 1; great black-backed gull, 290; herring gull, 3300; kittiwake, 2; Brünnich's murre, 2; dovekie, 36; black guillemot, 3; rock dove, 110; belted kingfisher, 1; flicker, 12; hairy woodpecker, 1; downy woodpecker, 7; horned lark, 1; blue jay, 52; crow, 107; black-capped chickadee, 155; white-breasted nuthatch, 4; brown creeper, 7; golden-crowned kinglet, 17; northern shrike, 4; starling, 2500; myrtle warbler, 4; English sparrow, 107; meadowlark, 3; purple finch, 14; goldfinch, 122; junco, 33; tree sparrow, 97; field sparrow, 6; white-throated sparrow, 1; song sparrow, 5; snow bunting, 11. TOTAL, 54 species; about 9095 individuals.—Mr. and Mrs. ARTHUR W. ARGUE, FRANCES BURNETT, S. A. ELIOT, JR., MR. and Mrs. M. C. EMERY, ANDREW and LUDLOW GRISCOM, N. P. HILL, R. MAZZEO, SALLIE MEANS, A. F. RIGGS II, CHANDLER ROBBINS, DOROTHY SNYDER.

HOLYOKE, MASS. (Mt. Tom east to Connecticut River and south to Ashley Ponds; town suburbs 30%, cattail marsh 30%, semiwooded upland 20%, coniferous groves 20%).—Dec. 31; 8 A.M. to 5 P.M. Overcast, with sleet until 10 A.M., then freezing drizzle; wind NE veering to SW, 0-7 m.p.h.; temp. 27° to 32°; ground covered with 6-8-in. snow; ponds and Connecticut River frozen. Seven observers (1 afield, 6 watching feeding-shelves). Total hours afield, 9; total miles, 22 (7 on foot, 15 by car). Ruffed grouse, 1; ring-necked pheasant, 2; screech owl, 1; hairy woodpecker, 1; downy woodpecker, 4; blue jay, 27; crow, 7; black-capped chickadee, 36; white-breasted nuthatch, 2; brown creeper, 4; cedar waxwing, 1; starling, 40; English sparrow, 75; purple finch, 1; pine grosbeak, 1; goldfinch, 66; slate-colored junco, 55; tree sparrow, 120; song sparrow, 22. TOTAL, 19 species; about 466 individuals. (Seen in usual count area Dec. 24: bald eagle, 1; herring gull, 40; ring-billed gull, 2; flicker, 1; robin, 1). Because of extremely icy high-ways, there was (for the first time in years) no coverage of Forest Park, Longmeadow, Agawam, and other points in the Springfield section of the count area. The 22 song sparrows were all in a cattail marsh where 10-12 successfully wintered in 1943-44.—A. C. BAGG, A. M. BAGG, E. P. BAGG, HELEN M. BAGG, THEODORA M. BAGG, ALMA DOANE, W. D. LESHURE.

NEWBURYPORT, MASS. (Plum Island to West Newbury, south to Topsfield and Ipswich).—Dec.

24; dawn to 6 P.M. Clear; light w wind; ground snow covered, all marshes and ponds frozen, harbor full of ice; temp. 26° to 36°. Six parties, 3 entirely on foot. Total hours afield, 65; total party miles, 110 (80 by car, 30 on foot). Common loon, 10; red-throated loon, 3; horned grebe, 37; European cormorant, 2; black-crowned night heron, 3; Canada goose, 5; mallard, 7; black duck, 4200; green-winged teal, 2; scaup, 2650; golden-eye, 1100; buffle-head, 100; old-squaw, 580; white-winged scoter, 68; surf scoter, 4; Am. scoter, 21; Am. merganser, 10; red-breasted merganser, 271; sharp-shinned hawk, 1; red-tailed hawk, 2; rough-legged hawk, 1; bald eagle, 3; sparrow hawk, 4; ruffed grouse, 8; pheasant, 12; *coot*, 1 (second winter record); purple sandpiper, 20; red-backed sandpiper, 4; sanderling, 6; great black-backed gull, 34; herring gull, 2550; ring-billed gull, 9; Bonaparte's gull, 107; dovekie, 1; rock dove, 123; *mourning dove*, 23 (4 different flocks, without precedent in northern Mass.); great horned owl, 1; long-eared owl, 1; short-eared owl, 2; saw-whet owl, 1; flicker, 52 (remarkably numerous); hairy woodpecker, 4; downy woodpecker, 29; horned lark, 39; blue jay, 154; crow, 610; chickadee, 308; white-breasted nuthatch, 4; brown creeper, 1; Carolina wren, 1; robin, 11; *bluebird*, 1 (at a Topsfield feeder; a great rarity); golden-crowned kinglet, 8; cedar waxwing, 38; northern shrike, 7; starling, 2000; myrtle warbler, 350 (remarkably numerous); English sparrow, 165; meadowlark, 12; purple finch, 20; pine grosbeak, 11; goldfinch, 362 (exceptionally numerous); junco, 177; tree sparrow, 210; white-throated sparrow, 9; song sparrow, 13; Lapland longspur, 50; snow bunting, 66. TOTAL, 68 species; about 16,639 individuals.—Mr. and Mrs. ARTHUR W. ARGUE, VIRGINIA CLAPP, Mrs. J. F. DU BOIS, W. L. FLOCK, Mr. and Mrs. ELMER P. FOYE, ROBERT GRAYCE, LUDLOW GRISCOM, STUART K. HARRIS, N. P. HILL, MARTIN KARPLIS, RALPH LAWSON, LEON MAGEE, A. F. RIGGS II, IAN ROSE, DOROTHY E. SNYDER.

NORTHAMPTON, MASS. (same circ'e as in past 10 years; most of time spent in farm fields or near houses).—Dec. 24. Cloudy or hazy; calm; 1-2-in. snow; water frozen except for river pools; temp. 15° to 40°. Thirty-one observers at or near their homes, and 19 in 12 parties: 5 afoot, 1 on horseback, 1 on bicycle, 5 with cars. Total hours afoot, about 50; total miles, 119 (at least 44 afoot, 6 by horse, 15 by bicycle, 54 by car). Canada goose, heard (R.P.; 8 seen Dec. 22); Am. golden-eye, 1; Am. merganser, 56; red-tailed hawk, 1; sparrow hawk, 6; ruffed grouse, 3 (fewest ever); pheasant, 11; mourning dove, 8; screech owl, 1; great horned owl, 3; pileated woodpecker, 1; hairy woodpecker, 22; downy woodpecker, 70; northern horned lark, 100 (2 flocks); blue jay, 170; crow, 320; chickadee, 415; white-breasted nuthatch, 81; creeper, 8; winter wren, 1; mockingbird, 1 (resident since Nov. 12); robin, 4; golden-crowned kinglet, 5; ruby-crowned kinglet, 1 (at a feeder in S. Hadley: A.S.K., L.W.); northern shrike, 3; starling, 600; English sparrow, 550; meadowlark, 1; bronzed grackle, 2; evening grosbeak, 1; purple finch, 17; pine grosbeak, 5; redpoll, 40 (2 flocks); goldfinch, 276; junco, 320;

tree sparrow, 463; field sparrow, 12 (S.A.E.); white-throated sparrow, 6; swamp sparrow, 2; song sparrow, 19; snow bunting, 120 (2 flocks). TOTAL, 41 species; 3727 individuals. (Flicker just outside area. Seen within a few days: sharp-shinned hawk, barred owl, kingfisher, another winter wren, hermit thrush, bluebird, 10 more pine grosbeaks.)—A. M. BAGG, MARY C. BESSEY, LARRY BRIGGS, EDITH BURNETT, R. M. CLARK, R. L. COFFIN, L. S. COMBS, ISABELLE CONNER, MARION DERONDE, MRS. M. A. DICKINSON, SUSAN A. DOLEMAN, S. A. ELIOT, JR., H. M. GORE, DWIGHT and JOHN GRAVES, CORA GROVER, MRS. C. D. HARRIS, MRS. RALPH HARRIS, MRS. W. S. HAWLEY, MRS. J. T. KENTFIELD, A. S. KINNEY, MRS. L. MADEIRA, E. A. MASON, ROBERT PIERCE, HELEN PILLANS, ESTHER J. POLLARD, MARY T. POMEROY, MRS. F. C. PRAY, MR. and MRS. D. A. RIEDEL, DR. and MRS. F. A. SAUNDERS, JANE and SALLY SESSIONS, ETHEL M. SMITH, MR. and MR. E. C. STAPLES, MRS. H. L. SWEETMAN, MRS. G. E. TAYLOR, WALLACE TORREY, MRS. SETH WAKEMAN, MRS. ARTHUR WARNER, MR. and MRS. W. S. WELLES, MR. and MRS. P. L. WHELOCK, RALPH WHITCOMB, MR. and MRS. MAX WINKLER, LEONARD WORLEY.

PITTSFIELD, MASS. (Lake Onota, west and south shores, and woods to city; Lake Morewood area and filter beds; feeding station; evergreen and birch forest 80%, deciduous woodland 10%, fields, filter beds, and swamps, 10%).—Dec. 26; 8:30 A.M. to 5 P.M. Mostly clear, with a few snow squalls; wind NW, 25-35 m.p.h. with gusts up to 45 m.p.h.; temp. 24° to 18°; ground covered with about 6-in. crusted snow; lakes frozen. Seven observers in 3 parties. Total hours, 8½; total miles, 10 (on foot). Am. merganser, 2 (flying over); sharp-shinned hawk, 1; downy woodpecker, 2; blue jay, 4; crow, 5; black-capped chickadee, 49; white-breasted nuthatch, 7; brown creeper, 1; golden-crowned kinglet, 4; starling, 54; English sparrow, 45; purple finch, 1; pine grosbeak, 1; goldfinch, 14; slate-colored junco, 1; tree sparrow, 9; song sparrow, 1. TOTAL, 17 species; 201 individuals.—ELIZABETH BALL, ANN FITZ, MRS. BARTLETT HENDRICKS, MRS. D. D. MACCARTHY, GLADYS SCHUMACHER, MRS. CAMILLA SHAW, MRS. LEONARD SWEITZER (Hoffman Bird Club).

WARE, MASS. (Grenville Park and 2 miles east along Ware River, 3 miles south along Ware River, lower Muddy Brook area, lower Quabbin Reservoir area, Quaboag River from West Brookfield to West Warren, various feeding stations; town gardens 10%, open farmland 20%, deciduous woodland 25%, open marshland 45%).—Dec. 31; 8 A.M. to 4 P.M. Light snow turning to rain with mist on higher ground; temp. 32° to 40°; wind ESE, less than 1 m.p.h.; 4-6 in. lightly crusted snow; all water frozen except lower Quabbin Reservoir and swifter sections of rivers and brooks. Nine observers in 3 parties. Total hours, 14 (on foot); total miles, 14 (on foot). Black duck, 4; hooded merganser, 1; Am. merganser, 7; red-tailed hawk, 1; ruffed grouse, 2; ring-necked pheasant, 8; belted kingfisher, 3; hairy woodpecker, 4; downy woodpecker, 9; blue jay, 49; crow, 13; black-capped chickadee, 91; white-breasted nuthatch, 9; brown creeper, 1; mockingbird, 1 (wintering,

J.H.C.); starling, 178; English sparrow, 235; purple finch, 2; goldfinch, 3; slate-colored junco, 87; tree sparrow, 207; song sparrow, 4; snow bunting, 2. TOTAL, 23 species; 921 individuals. (Seen in area Dec. 28: bald eagle, 3; herring gull, 1; Jan. 1: meadowlark, 2.)—L. G. and M. E. ALBERTINE, T. BANAS, J. H. CONKEY, V. H. MARLAND, G. MARSH, D. R. MCPHETRES, M. L. SMITH, E. WALKER.

WORCESTER, MASS. (various sections of Worcester, Boylston, West Boylston, extreme western part of Shrewsbury, extreme northern tip of Millbury and southern part of Holden; city residential land 46%, woods 24%, reservoirs and ponds 8%, fields 8%, city parks and cemeteries 8%, built-up sections 6%).—Dec. 26; 10 A.M. to 5:25 P.M. Partly cloudy at start, cloudless after 11:30; temp. 27° to 18°; wind WNW, 15-35 m.p.h.; ground, except for a few bare spots, covered with 2-in. crusty snow; most ponds and reservoirs 90% frozen, except for Curtis Pond which was completely open. Total hours, 7 hrs. 25 min. (5½ in car, ¼ on foot, ¼ for lunch and D. H. C. alone last 40 min. on foot); total miles, 50½ (49 by car, 1½ by foot). Mallard, 15; common black duck, 2; black duck (either or both subspecies), 34; Am. merganser, 52; herring gull, 7; rock dove, a few; belted kingfisher, 1; downy woodpecker, 3; blue jay, 2; crow, 3; black-capped chickadee, 8; white-breasted nuthatch, 1; starling, 20; English sparrow, 45; goldfinch, 1; slate-colored junco, 3; tree sparrow, 6; song sparrow, 2. TOTAL, 17 species; about 205 individuals.—DAVID WETHERBEE, DAVIS H. CROMPTON.

PROVIDENCE, R. I. (Seekonk River, East Providence Reservoir, and Narragansett Bay to Warwick Neck).—Dec. 30; 8:30 A.M. to 4:30 P.M. Clear; ground covered with snow, ponds frozen, ice along shores of Narragansett Bay; calm to NE wind; temp. 15° at start, 33° at return. Three observers in 2 parties. Total party hours, 13 (8 on foot, 5 by car); total miles, 61 (53 by car, 8 on foot). Horned grebe, 2; black-crowned night heron, 12; black duck, 57; baldpate, 1; greater scaup, 4610; golden-eye, 172; buffle-head, 15; Am. merganser, 21; red-breasted merganser, 39; Cooper's hawk, 1; sparrow hawk, 1; coot, 1 (most likely wounded this fall); great black-backed gull, 3; herring gull, 305; flicker, 8; hairy woodpecker, 1; downy woodpecker, 4; blue jay, 47; crow, 14; chickadee, 38; white-breasted nuthatch, 9; brown creeper, 3; winter wren, 1; robin, 12; starling, 155; myrtle warbler, 53; English sparrow, 50; meadowlark, 16; goldfinch, 22; junco, 81; tree sparrow, 23; white-throated sparrow, 2; song sparrow, 28. TOTAL, 33 species; about 5807 individuals.—PHILIP NILES, CHARLES WOOD, CARLOS G. WRIGHT.

TIVERTON, LITTLE COMPTON, R. I. AND ACOAXET, MASS. (same route followed as in 1937-12 counts; ocean shoreline 40%, salt marsh and brackish ponds 20%, open fields 10%, fresh streams with bushy cover 20%, mature deciduous forest 10%).—Dec. 24; 7:30 A.M. to 5 P.M. Overcast; temp. 32° to 36°; wind NW, 3 m.p.h.; ground partially covered with 3-in. drifted snow; all ponds tightly frozen. Four observers in 1 party. Total hours, 22 (14 on foot, 8 by car); total miles, 51 (6 on foot, 45 by car). Common loon, 31; red-throated

loon, 5; horned grebe, 27; European cormorant, 31; Canada goose, 22; black duck, 226; baldpate, 10; pintail, 26; greater scaup, 500 (est.); Am. golden-eye, 198; buffle-head, 32; old-squaw, 6; Am. eider, 16; king eider, 2 (ad. ♂s—R.B.); white-winged scoter, 305; surf scoter, 32; Am. scoter, 70; hooded merganser, 1; Am. merganser, 24; red-breasted merganser, 22; red-tailed hawk, 1; red-shouldered hawk, 1; sparrow hawk, 8; purple sandpiper, 26; great black-backed gull, 11; herring gull, 350; ring-billed gull, 13; dovekie, 1 (oiled); mourning dove, 19; kingfisher, 2; flicker, 27; downy woodpecker, 4; n. horned lark, 71; blue jay, 32; crow, 31; chickadee, 41; hermit thrush, 1; bluebird, 1; starling, 150; myrtle warbler, 45; English sparrow, 120; meadowlark, 51; cowbird, 1; goldfinch, 55; red-eyed towhee, 1; savannah sparrow, 6; vesper sparrow, 2; slate-colored junco, 56; tree sparrow, 110; field sparrow, 1; white-throated sparrow, 3; swamp sparrow, 1; song sparrow, 21; Lapland longspur, 27. TOTAL, 54 species; about 2876 individuals.—J. BLAUT, R. BOWEN, D. L. EMERSON, H. N. GIBBS (Rhode Island Ornithological Club).

HARTFORD, CONN. (circle with $7\frac{1}{2}$ -mile radius, centered at Old State House, Hartford).—Dec. 24; dawn to dark. Cloudy with NE wind, 8-12 m.p.h.; temp. 28° to 46°; ground covered with 6-in. snow; almost all water frozen except parts of Connecticut River. Fourteen observers in 9 parties. Total hours, 39; total miles, 43 (on foot). Black duck, 19; Am. golden-eye, 1; Am. merganser, 36; bald eagle, 1; duck hawk (wintering in downtown Hartford), 1; sparrow hawk, 4; pheasant, 16; herring gull, 52; screech owl, 3; barred owl, 2; kingfisher, 1; flicker, 2; hairy woodpecker, 3; downy woodpecker, 37; horned lark (ssp.?), 66; blue jay, 75; crow, 194; chickadee, 124; white-breasted nuthatch, 26; brown creeper, 16; winter wren, 1; bluebird, 9; hermit thrush, 3 (E.W.); golden-crowned kinglet, 1; starling, 132; myrtle warbler, 14; English sparrow, 102; meadowlark, 11; goldfinch, 69; towhee, 1 (ad. ♂—E.A.B.); slate-colored junco, 234; tree sparrow, 428; field sparrow, 3 (E.A.B.); white-throated sparrow, 19; fox sparrow, 1; swamp sparrow, 4; song sparrow, 37. TOTAL, 37 species; about 1748 individuals.—D. BARBER, MR. and MRS. E. A. BERGSTROM, E. DE ROEHN, MRS. W. T. FINNERTY, P. E. FELLOWS, R. GOODELL, A. J. MOODY, J. O'BRIEN, A. G. POWERS, E. B. and R. J. RISLEY, C. STAMM, E. WADSTROM (Hartford Bird Study Club).

NEW LONDON, CONN. (Noank, Route 1, through woods and fields to shore of Long Island Sound; New London and Waterford, west bank of Thames River from Ocean Beach to New London center; Route 1 west to Waterford woods and fields from Flanders Village to Pleasure Beach, along shore of Long Island Sound to Harkness estate).—Dec. 26; 8:30 A.M. to 5 P.M. Partly cloudy; temp. 34° to 40°; ground partly covered with snow; wind NW, calm to 16 m.p.h. Two observers in 2 parties. Total hours, 15½; total miles afoot, 28. Common loon, 1; horned grebe, 3; black duck, 45; scaup, 107; Am. golden-eye, 6; buffle-head, 62; Am. scoter, 1; red-breasted merganser, 24; red-tailed hawk, 2; sparrow hawk, 3; bob-white, 3; ring-necked pheas-

ant, 3; purple sandpiper, 24; sanderling, 3; great black-backed gull, 12; herring gull, 788; ring-billed gull, 1; rock dove, 2; barred owl, 1; belted kingfisher, 3; flicker, 2; downy woodpecker, 2; blue jay, 5; crow, 12; black-capped chickadee, 24; robin, 2; starling, 98; myrtle warbler, 12; English sparrow, 166; meadowlark, 9; grackle, 1; goldfinch, 3; junco, 9; tree sparrow, 6; white-throated sparrow, 3; song sparrow, 6. TOTAL, 36 species; 1454 individuals.—RALPH DANFORTH, ROBERT FULTON LOGAN.

OXFORD, CONN. (Park Road north to Quaker Farms, then to Stevenson and back over Rockhouse Hill; brushy pastures 45%, open land 25%, river shore 20%, woodland, mostly deciduous, 10%).—Dec. 31; 9:30 A.M. to 6 P.M. Cloudy, mostly foggy and drizzly; 6-in. snow; ponds frozen, but some open water on Housatonic River; wind SE, 0-7 m.p.h.; temp 34° to 40°. Total hours, 8½ (on foot); total miles, 13 (on foot). Am. merganser, 2; ruffed grouse, 1; herring gull, 8; mourning dove, 2; kingfisher, 1; flicker, 3; hairy woodpecker, 8; downy woodpecker, 18; blue jay, 51; crow, 33; chickadee, 117; white-breasted nuthatch, 7; brown creeper, 2; hermit thrush, 2; bluebird, 27; golden crowned kinglet, 4; cedar waxwing, 80 (3 flocks); starling, 6; myrtle warbler, 94; English sparrow, 67; purple finch, 25; goldfinch, 10; junco, 103; tree sparrow, 49; white-throated sparrow, 1; song sparrow, 4. TOTAL, 26 species; 725 individuals.—ALFRED P. HARGER.

SAYBROOK, CONN. ($\frac{1}{4}$ mile south of Essex to Sound, along Connecticut River, through town; deciduous woods 30%, river shore 25%, roadside fields, lots 20%, marsh, beach, town, other woods, etc., 25%).—Dec. 31; 9 A.M. to 5:30 P.M. Overcast with occasional fog and light rain; wind S, 5-10 m.p.h.; temp. 32° to 40°; ground covered with melting snow; water open in river and tidal creeks, frozen in coves, marshes, ponds. Total hours, 8½ (5 on foot, 3½ by bicycle); total miles, 13 (7 on foot, 6 by bicycle). Red-throated loon, 1; black duck, 104; scaup (?), 17; golden-eye (?), 39; buffle-head, 11; Am. merganser, 46; bald eagle, 1; buteo (?), 1; sparrow hawk, 1; purple sandpiper, 1; great black-backed gull, 5; herring gull, 222; ring-billed gull, 11; belted kingfisher, 2; flicker, 2; hairy woodpecker, 2; downy woodpecker, 1; blue jay, 6; crow, 18; chickadee, 48; white-breasted nuthatch, 1; brown creeper, 1; winter wren, 3; bluebird, 11; myrtle warbler, 2; starling, 156; English sparrow, 134; slate-colored junco, 11; goldfinch, 63; tree sparrow, 12; song sparrow, 1. TOTAL, 31 species; 934 individuals. (Seen in area preceding week: Canada goose, 30; old-squaw, 2; ruddy duck, 15; red-breasted merganser, 4; great horned owl, 1; robin, 2).—CHESTER BOWLES, JR.

WEST HAVEN, CONN. (wooded and brushy hillsides, residential areas, salt marshes; sand bar and shores of New Haven Harbor to Kimberly Ave. bridge; shores of Long Island Sound to Sea Bluff).—Dec. 29; 9:30 A.M. to 5:30 P.M. Clear; temp. about 29°; ground covered with several inches of snow; lakes frozen. Total hours, 7½; total miles, 10 (7½ on foot, 2½ by streetcar). Mallard, 1; black duck, 300 (est.); scaup, 520 (est.); Am. golden-eye, 53; buffle-head, 8; white-winged scoter, 20; red-

breasted merganser, 1; black-backed gull, 1; herring gull, 270 (est.); ring-billed gull, 18; rock dove, 16; hairy woodpecker, 1; downy woodpecker, 4; horned lark, 11; blue jay, 16; crow, 3; black-capped chickadee, 5; white-breasted nuthatch, 2; starling, 155 (est.); English sparrow, 25; meadowlark, 4 (on salt meadows); junco, 20; tree sparrow, 31; field sparrow, 1; white-throated sparrow, 5; song sparrow, 6. TOTAL, 26 species; about 1497 individuals. (Several thousand ducks in harbor too distant for reliable identification.)—CHARLES F. WRIGHT, FRANK HENDRICKS, JOHN DRISCOLL.

AMITYVILLE, L. I., N. Y. (center of Amityville, west to Massapequa State Park, north to central part of park and Sunrise Highway, south to bay; deciduous woodland 49%, fields 20%, residential area 16%, beaches 5%, cattail marsh 5%, ponds 5%).—Dec. 29; 8:30 A.M. to 6 P.M. Fair; temp. 15° to 27°; wind NW, veering to NE, 1-7 m.p.h.; all but small parts of fresh-water ponds and small tidal creeks frozen. Two observers together. Total hours, 10 (on foot); total miles, 16½ (on foot). Great blue heron, 3; black-crowned night heron, 1 (seen regularly for past month—H.K.C.); mallard, 53; greater scaup, 2; Cooper's hawk, 1; Wilson's snipe, 1; great black-backed gull, 1; herring gull, 51; belted kingfisher, 1; downy woodpecker, 2; tree swallow, 1 (seen at close range with field glasses—W.O.B.); blue jay, 7; crow, 30; black-capped chickadee, 24; white-breasted nuthatch, 2; brown creeper, 2; hermit thrush, 2; bluebird, 1; starling, 18; myrtle warbler, 53; meadowlark, 1; English sparrow, 4; goldfinch, 1; slate-colored junco, 3; tree sparrow, 133; fox sparrow, 1; song sparrow, 7. TOTAL, 27 species; about 406 individuals. (Seen in area Dec. 24; sparrow hawk, 1; Dec. 27; mourning dove, 1; white-throated sparrow, 1; chipping sparrow, 2 [seen at close range with field glasses—W.O.B.]; robin, 1 [seen and heard near pond—H.K.C.])—W. O. BINKLEY, H. K. CHADWICK.

EASTPORT, L. I., N. Y. (to Hampton Bays).—Dec. 29; 8:30 A.M. to 4:30 P.M. Clear in A.M., partly cloudy in P.M.; wind moderate, N; temp. 20° to 24°; fresh water frozen and bays partly frozen. Common loon, 4; great blue heron, 6; Am. bittern, 1; mute swan, 19; mallard, 2; common and red-legged black duck, 4500 (est.); baldpate, 5; pintail, 3; scaup, 300 (est.); golden-eye, 110; buffle-head, 24; old-squaw, 32; white-winged scoter, 200 (est.); red-breasted merganser, 15; sharp-shinned hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 1; pheasant, 1; black-bellied plover, 10; knot, 1; red-backed sandpiper, 2; sanderling, 9; great black-backed gull, 16; herring gull, 1200 (est.); ring-billed gull, 20; mourning dove, 3; kingfisher, 4; flicker, 8; downy woodpecker, 2; horned lark, 21; blue jay, 2; crow, 46; black-capped chickadee, 9; hermit thrush, 1; bluebird, 16; starling, 300 (est.); myrtle warbler, 100 (est.); English sparrow, 25; meadowlark, 2; red-wing, 18; cowbird, 13; goldfinch, 9; Ipswich sparrow, 1; junco, 3; tree sparrow, 11; field sparrow, 1; white-throated sparrow, 1; song sparrow, 8; snow bunting, 2. TOTAL, 51 species and subspecies; approximately 7030 individuals.—LEROY WILCOX.

HEMPSTEAD AND ATLANTIC BEACH, L. I., N. Y. (Hempstead Reservoir to Rockville Centre Pond, thence to Atlantic Beach, Lawrence, and surrounding area).—Dec. 30; 8:45 A.M. to 5:30 P.M. Reservoir and 2 nearby ponds 90% frozen; ground frozen; patches of ice and snow; calm and cloudy; temp. 20° at start, 30° noon maximum; wind NW, 1-7 m.p.h. Three observers working together, 1 alone. Total hours, 14 (on foot); total miles, 15 (on foot). Common loon, 2; Holboell's grebe, 1; double-crested cormorant, 6; mallard, 37; common and red-legged black duck, 350 (est.); baldpate, 23; pintail, 11; green-winged teal, 4; greater scaup, 11; Am. scoter, 9; white-winged scoter, 70; Am. merganser, 32; red-breasted merganser, 79; marsh hawk, 1; sparrow hawk, 1; killdeer, 2; purple sandpiper, 17; sanderling, 88; glaucous gull, 1; great black-backed gull, 65; herring gull, 900 (est.); ring-billed gull, 154; razor-billed auk, 1 (seen at 50 yds. with 8x binoculars and at ¼ mi. with 14x telescope; positively identified); rock dove, 200 (est.); short-eared owl, 1; downy woodpecker, 1; n. horned lark, 4; crow, 371; black-capped chickadee, 35; robin, 3; golden-crowned kinglet, 3; starling, 250 (est.); English sparrow, 75 (est.); Ipswich sparrow, 1; tree sparrow, 77; field sparrow, 13; song sparrow, 5. TOTAL, 38 species and subspecies; approximately 2904 individuals. (Seen in area Dec. 29; vesper sparrow, 1.)—ROBERT DE MARS, LEONARD GROSSMAN, ROBERT NAGLER, JOHN NEW.

MILL NECK, L. I., N. Y. (along Oyster Bay to Mill Neck Sanctuary bay to L. I. R. R. and high ground intervening; suburban woodlands (chiefly deciduous) 40%, salt-water bay shore 40%, fresh-water inlet 20%).—Dec. 25; 9 to 10 A.M., 11 A.M. to 5 P.M. Drizzle most of day, plus heavy fog in P.M.; calm; temp. 35° to 39°; 3-in. snow on ground; most fresh water frozen; 7 miles on foot. Pied-billed grebe, 1; great blue heron, 2; mute swan, 6; mallard, 300 (est.); black duck, 40; green-winged teal, 3; canvas-back, 5; greater scaup, 150 (est.); old-squaw, 40 +; Am. merganser, 4; red-breasted merganser, 1; unidentified ducks (probably mostly scaup), 400 (est.); red-tailed hawk, 1; sparrow hawk, 1; coot, 1; great black-backed gull, 1; herring gull, 70; ring-billed gull, 5; flicker, 1; hairy woodpecker, 1; downy woodpecker, 9; blue jay, 2; crow, 16; black-capped chickadee, 19; tufted titmouse, 1; white-breasted nuthatch, 3; robin, 2; bluebird, 2; golden-crowned kinglet, 3; starling, 1; English sparrow, 3; goldfinch, 26; slate-colored junco, 1; tree sparrow, 5; field sparrow, 6; white-throated sparrow, 59; song sparrow, 16. TOTAL, 36 species; about 1207 individuals.—BEN B. COFFEY, JR. (Tenn. Orn. Soc.).

SMITHTOWN, L. I., N. Y. (T. J. White estate and environs, Nissequogue River to Short Beach, thence along shore of L. I. Sound and through woods to Stony Brook Harbor and St. James).—Dec. 23; 8 A.M. to 5:30 P.M. Generally dark all day with frequent periods of light to moderate snowfall until noon, followed by intervals of fine, misty rain until 3:30 P.M.; poor visibility; all smaller bodies of water wholly or partly frozen; 4-in. snow on ground; temp. 27° at start, max. 33° at 4 P.M. Two

observers together, 1 alone. Total miles afoot, 20. Horned grebe, 5; great blue heron, 4; Am. egret, 1 (studied at less than 150 yds. both in flight and perched in a tree; black legs and yellow bill noted with ease—C. and F.); black-crowned night heron, 2; mute swan, 12; mallard, 10; common black duck (and the so-called "red-legged" black), 630; European widgeon, 15; baldpate, 32; ring-necked duck, 75; greater scaup, 270; lesser scaup, 1; Am. golden-eye, 50; old-squaw, 55; Am. scoter, 2; white-winged scoter, 607; surf scoter, 1; hooded merganser, 4; Am. merganser, 40; red-breasted merganser, 9; Cooper's hawk, 1; red-tailed hawk, 1; coot, 5; black-backed gull, 27; herring gull, 976; ring-billed gull, 2; mourning dove, 1; screech owl, 1; flicker, 1; hairy woodpecker, 2; downy woodpecker, 11; phoebe, 1 (studied at leisure within 30 ft. as the bird perched on a branch over a brook, unmistakable!—C. and F.); blue jay, 16; crow, 92; fish crow, 6; black-capped chickadee, 87; white-breasted nuthatch, 19; brown creeper, 1; winter wren, 6; Carolina wren, 2; robin, 6; hermit thrush, 1; golden-crowned kinglet, 19; starling, 7; myrtle warbler, 4; English sparrow, 5; meadowlark, 3; cardinal, 3; goldfinch, 73; slate-colored junco, 89; tree sparrow, 63; field sparrow, 2; white-throated sparrow, 40; swamp sparrow, 26; song sparrow, 37. TOTAL, 55 species; about 3447 individuals. (Fresh tracks of bob-white and ring-necked pheasant seen in snow.) —MRS. BEN B. COFFEY, RICHARD B. FISCHER, CHRISTOPHER K. McKEEVER.

WESTERN LONG ISLAND, N. Y. (Flushing Bay to North Hills, Kings Point, and Hempstead Lake; suburban New York City 30%, open farmland 20%, lake shore 10%, salt-water bay 30%, city streets and parkways 10%).—Dec. 30; dawn to dusk. Dull; some snow; ground frozen; ice on all fresh water; temp. 15° to 30°. Nine observers in 5 parties. Total party hours afield, 28; total party miles, 45. Black-crowned night heron, 30; double-crested cormorant, 25; mute swan, 2; canvas-back, 200; lesser scaup, 500; Am. golden-eye, 25; Am. scoter, 30; sharp-shinned hawk, 1; red-tailed hawk, 2; sparrow hawk, 6; bob-white, 10; ring-necked pheasant, 1; great black-backed gull, 3; herring gull, 1000; ring-billed gull, 25; rock dove, 20; barn owl, 2; screech owl, 1; short-eared owl, 1; flicker, 2; blue jay, 4; crow, 15; fish crow, 2; black-capped chickadee, 10; white-breasted nuthatch, 2; robin, 10; bluebird, 30; golden-crowned kinglet, 15; migrant shrike, 1; starling 500 +; English sparrow, 50; red-wing, 8; rusty blackbird, 5; purple grackle, 13; cowbird, 3; savannah sparrow, 4; vesper sparrow, 6; slate-colored junco, 50; tree sparrow, 90; field sparrow, 35; white-throated sparrow, 100; fox sparrow, 3; swamp sparrow, 4; song sparrow, 15. TOTAL, 44 species; about 2861 individuals. This is not a true picture. The number of species is low because of government restrictions along the waterfront.—WILLIAM O., WILLIAM R., and ELIZABETH M. ASTLE; MARIE V. BEALS, HERMAN L. BOHM, JOHN MATHEWS, SAMUEL YEATON, W. W. REID, SR., RAWSON WOOD (Queens County Bird Club).

[All species and individuals observed at Hemp-

stead Lake were removed from the above list, as that particular area overlapped the count made by Messrs. De Mars, Grossman, Nagler, and New between Hempstead Lake and Atlantic Beach. Additional Hempstead Lake species listed by the Queens County group were: coot, 4; hermit thrush, 2.—ED.]

BRONX-WESTCHESTER REGION, N. Y. (same area as in past years).—Dec. 31. Cloudy in A.M., foggy, light rain in late P.M.; wind light, E; temp. 29° to 34°; 4-in. snow on ground; nearly all fresh water frozen; salt-water estuaries mostly ice. Forty observers in 7 parties. Total hours, 56 (52 on foot, 4 in car); total miles, 52 (46 on foot, 6 by car). Red-throated loon, 2; Holboell's grebe, 1; cormorant (sp. ?), 2; great blue heron, 18; black-crowned night heron, 60; Am. bittern, 1; Canada goose, 61; mallard, 114; red-legged and common black duck, 2440 (est.); baldpate, 17; pintail, 6; green-winged teal, 12; canvas-back, 2; greater scaup, 4170 (est.); lesser scaup, 1; Am. golden-eye, 194; buffle-head, 7; old-squaw, 6; white-winged scoter, 200 (est.); hooded merganser, 14; Am. merganser, 71; red-breasted merganser, 76; Cooper's hawk, 3; red-tailed hawk, 10; red-shouldered hawk, 8; rough-legged hawk, 3; duck hawk, 2; sparrow hawk, 11; ring-necked pheasant, 72; Virginia rail, 1; coot, 1; killdeer, 2; purple sandpiper, 10; Iceland gull, 1; black-backed gull, 46; herring gull, 6725 (est.); ring-billed gull, 1; laughing gull, 2 (first record for area—W.A.E.); rock dove, 150 (est.); mourning dove, 21; screech owl, 3; horned owl 1; barred owl, 2; long-eared owl, 3; kingfisher, 10; flicker, 4; hairy woodpecker, 24; downy woodpecker, 79; blue jay, 143; crow, 314 (est.); fish crow, 14; black-capped chickadee, 262 (est.); white-breasted nuthatch, 115; brown creeper, 13; winter wren, 2; robin, 7; hermit thrush, 2; bluebird, 24; golden-crowned kinglet, 49; ruby-crowned kinglet, 1; cedar waxwing, 28; starling, 2660 (est.); myrtle warbler, 1; English sparrow, 1290 (est.); meadowlark, 33; red-wing, 10; grackle, 10; cowbird, 1; cardinal, 15 (twice number of any previous year); purple finch, 4; goldfinch, 117; towhee, 1; savannah sparrow, 9; sharp-tailed sparrow, 1; vesper sparrow, 4; slate-colored junco, 1050 (est.); tree sparrow, 610 (est.); field sparrow, 88; white-throated sparrow, 310 (est.); fox sparrow, 16; swamp sparrow, 32; song sparrow, 425 (est.); snow bunting, 1. TOTAL, 84 species and subspecies; approximately 22,332 individuals.—J. ANSEL, D. BEVERLY, MR. and MRS. J. L. BULL, JR., CAPT. and MRS. BEN B. COFFEY, JR., HELEN CRUICKSHANK, E. EISENMANN, SGT. W. A. EPHRAIM, R. B. FISCHER, R. GERSHON, T. GOTTLIEB, S. C. HARRIOT, D. HELLER, R. A. HERBERT, H. HOLLISTER, J. HOLMES, I. KASSOY, R. KESNER, J. KIERAN, G. KOMOROWSKI, J. F. MATHEWS, M. OBOIKO, A. PECK, H. H. POOR, W. F. RISSANEN, G. and R. ROGIN, R. SCHULTZ, R. SEGAL, R. SOFFER, J. SOIL, J. STEGLE, R. THATCHER, A. M. THOMAS, J. TIFFANY, IDA F. WERNER, R. WINNER, S. YEANDLE, H. YOUNG.

BUFFALO, N. Y. (centering on Grand Island and including Buffalo and Niagara Falls; open farmland 40%, deciduous woodlots 20%, city parks 5%, Niagara River and Buffalo Harbor 20%, cattail marshes 3%, city, suburban, and factory areas 12%).

—Dec. 31. Cloudy, heavy fog; temp. 32° to 37°; wind SE, 11 m.p.h.; 12-in. snow on ground; ponds frozen, ice bridge formed in gorge at falls. Twenty-nine observers in 10 parties. Total hours, 71 (30 on foot); total miles, 160 (42 on foot). Black-crowned night heron, 5; mallard, 207; red-legged and common black duck, 587; baldpate, 1; pintail, 3; canvas-back, 1; greater scaup, 384; lesser scaup, 1; Am. golden-eye, 1501; buffle-head, 2; old-squaw, 102; Am. merganser, 238; red-breasted merganser, 203; red-tailed hawk, 6; rough-legged hawk, 6; sparrow hawk, 18; ruffed grouse, 7; pheasant, 267; great black-backed gull, 7; herring gull, 128; ring-billed gull, 3; Bonaparte's gull, 6; belted kingfisher, 1; mourning dove, 1; screech owl, 1; long-eared owl, 1; short-eared owl, 11; flicker, 1; red-headed woodpecker, 10; hairy woodpecker, 7; downy woodpecker, 35; blue jay, 34; crow, 169; black-capped chickadee, 118; white-breasted nuthatch, 26; brown creeper, 13; winter wren, 1; golden-crowned kinglet, 3; starling, 1267; English sparrow, 972; red-wing, 5; cardinal, 6; goldfinch, 27; slate-colored junco, 30; tree sparrow, 229; song sparrow, 9; snow bunting, 6. TOTAL, 48 species and subspecies; 6666 individuals. (Seen in area within week: redhead, 1; Am. scoter, 1; marsh hawk, 2; glaucous gull, 2; robin, 2; meadowlark, 1.)—R. ANDRÉ, C. S. BEARDSLEE, MR. and MRS. A. C. BRETTE, J. DOYLE, MRS. K. F. ESCHELMAN, J. FILOR, H. GEHMAN, H. HARDY, W. S. HINEGARTNER, N. KEIM, D. LIPCHICK, MRS. R. D. MADISON, H. D. MITCHELL, F. ORCUTT, D. PAUSE, W. B. ROGERSON, J. SAVAGE, A. SCHAFFNER, E. SEEBER, R. SCHNORR, D. SHAW, C. A. SOMERSIDE, H. THORPE, MR. and MRS. E. C. ULRICH, R. WAGNER, M. WENDLING, M. S. WHEELER (Buffalo Ornithological Society).

CORTLAND, N. Y. (Tioughnioga River, south end of Skaneateles Lake, Gracie Swamp, and waterworks).—Dec. 31; 8:30 A.M. to 5:30 P.M. Light rain and sleet most of the time; 15-in. snow on ground; wind S, very light; temp. 34° at start and return. Four observers in 2 parties. Total hours afield, 13 (10 by foot, 3 by car); total party miles, 54 (9 by foot, 45 by car). Horned grebe, 1; black duck, 22; greater scaup, 3; ruddy duck, 1; Am. merganser, 7; Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 2; ruffed grouse, 1; pheasant, 9; herring gull, 4; belted kingfisher, 2; hairy woodpecker, 2; downy woodpecker, 8; prairie horned lark, 2; blue jay, 19; crow, 70; black-capped chickadee, 106; white-breasted nuthatch, 7; brown creeper, 9; winter wren, 1; golden-crowned kinglet, 15; starling, 80 (est.); English sparrow, 160 (est.); slate-colored junco, 2; tree sparrow, 8; song sparrow, 2. TOTAL, 27 species; approximately 546 individuals.—HAROLD H. and RACHEL C. AXTELL, MERTON R. and ROBERT BEAN.

FORT PLAIN, N. Y. (Mohawk River, Abeel Island, valleys of Oak, Otsquene, Otsungo and Otsquago creeks; mixed deciduous and coniferous woods 60%, river swamps and flats 20%, open farmland 20%).—Dec. 30. Fair; temp. 0° to 20°; wind SE, calm; 12-in. snow, deeply drifted; all water frozen except very swift currents in river. Total hours, 10 (on snowshoes); total miles, 13 (on snow-

shoes). Greater scaup, 1; Am. merganser, 5; great horned owl, 1; hairy woodpecker, 4; downy woodpecker, 6; blue jay, 4; crow, 2; black-capped chickadee, 35; white-breasted nuthatch, 9; brown creeper, 4; golden-crowned kinglet, 1; starling, 35; English sparrow, 25; goldfinch, 3; tree sparrow, 30; song sparrow, 1; snow bunting, 1. TOTAL, 17 species; 167 individuals. Dec. 29: meadowlark, 1; Dec. 31: pileated woodpecker, 1.—DOUGLAS AYRES, JR.

GENEVA, N. Y. (area bounded by Junius on north, east side of Seneca Lake on east, Kashong on south, and villages of Hall and Orleans on west; open farmland 50%, town suburbs 10%, mixed woods 25%, lake 15%).—Dec. 31. Cloudy; temp. 38° to 40°; wind S, 10 m.p.h.; ground covered with very heavy snow; all water frozen except Seneca Lake. Ten observers in 7 parties (1 observer watched feeding station all day). Total hours, 17½ (8 on foot, 9½ by car); total miles 32 (8 on foot, 24 by car). Horned grebe, 10; mallard, 12; black duck, 295; redhead, 5500 (est.); canvas-back, 35; greater and lesser scaup, 775; Am. golden-eye, 92; buffle-head, 13; old-squaw, 2; ruddy duck, 1; Am. merganser, 35; red-breasted merganser, 3; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 2; pheasant, 17; coot, 3; great black-backed gull, 1; herring gull, 30; rock dove, 75; flicker, 2; hairy woodpecker, 11; downy woodpecker, 17; prairie horned lark, 4; blue jay, 13; crow, 825; black-capped chickadee, 62; white-breasted nuthatch, 11; red-breasted nuthatch, 2; brown creeper, 3; starling, 621; English sparrow, 520; cardinal, 2; slate-colored junco, 16; tree sparrow, 25; song sparrow, 6. TOTAL, 37 species and subspecies; 9043 individuals.—LOREN WARD, WILLIAM VAN ESELTINE, ELAINE HART, ETHEL MURDEN, LEORA DRYER, FRED Z. HARTZELL, MRS. ARTHUR LACLARE, E. H. WHEELER, E. H. WHEELER, JR., H. A. SUTHERLAND (Eaton Bird Club).

OTISVILLE (ORANGE CO.), N. Y. (village and neighboring countryside; mixed woodland 40%, open farmland 50%, cattail marsh 10%).—Dec. 24; 7 A.M. to 5 P.M. Hazy and partly cloudy in A.M., becoming overcast in P.M.; wind E, 1-7 m.p.h.; temp. 31° to 32°; ground covered with 4-in. snow; ponds and streams frozen. Observer alone, on foot. Total hours, 8½; total miles, 12. Great horned owl, 1; pileated woodpecker, 1; hairy woodpecker, 6; downy woodpecker, 9; blue jay, 15; crow, 6; black-capped chickadee, 43; tufted titmouse, 7 (in 1 group, the largest ever observed here); white-breasted nuthatch, 6; brown creeper, 1; hermit thrush, 1; bluebird (♂), 1; starling, 56; English sparrow, 18; goldfinch, 9; junco, 4; tree sparrow, 24; white-throated sparrow, 4; song sparrow, 7. TOTAL, 19 species; 219 individuals. (Occurrence of hermit thrush and white-throated sparrow probably due to mild autumn.)—RALPH A. HUBLER.

PORT CHESTER, N. Y. (Rye and White Plains to Stamford, Conn., Rye and Kensico lakes, etc.).—Dec. 24. Cloudy (stratus); temp. 28° to 34°; ground covered with 3-in. snow; water mostly frozen. Eleven observers in 5 parties. Total hours, 45 (36 on foot); total miles, 115 (28 on foot). Common loon, 1; horned grebe, 16; great blue heron, 13;

Canada goose, 46; mallard, 210; common and red-legged black duck, 1100; blue-winged teal, 1; red-head, 1; ring-necked duck, 35; greater scaup, 900; Am. golden-eye, 140; buffle-head, 25; old-squaw, 20; white-winged scoter, 225; surf scoter, 5; hooded merganser, 11; Am. merganser, 275; red-breasted merganser, 300; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 3; bald eagle, 1; sparrow hawk, 6; ruffed grouse, 1; pheasant, 19; coot, 10; black-backed gull, 9; herring gull, 435; mourning dove, 26; barn owl, 2; barred owl, 2; long-eared owl, 3; kingfisher, 3; flicker, 3; pileated woodpecker, 1; hairy woodpecker, 12; downy woodpecker, 27; no. horned lark, 21; blue jay, 90; crow, 415; chickadee, 67; white-breasted nuthatch, 16; brown creeper, 1; winter wren, 1; robin, 14; hermit thrush, 2; bluebird, 12; golden-crowned kinglet, 15; cedar waxwing, 22; starling, 300; myrtle warbler, 28; English sparrow, 180; meadowlark, 2; red-wing, 1; cardinal, 2; goldfinch, 310; red-eyed towhee, 1; junco, 325; tree sparrow, 140; white-throated sparrow, 55; swamp sparrow, 1; song sparrow, 52. TOTAL, 62 species and subspecies; 5964 individuals. (Dec. 25; cowbird, 1; fox sparrow, 1.)—RICHARD L. BURDSALL, JOHN MOXHAY, MICHAEL OBOIKO, P. CECIL SPOFFORD, PHILIP YOUNGMAN, MRS. BENJAMIN BROOKS, RICHARD L. WEAVER, MRS. ROENA LASERSOHN, MRS. OLIVER ELLSWORTH, MR. and MRS. WM. BOLTON COOK.

ROCHESTER, N. Y. (Lake Ontario shore from Rigney's Bluff to Irondequoit Bay outlet, Durand-Eastman Park, Tryon Park, Ellison Park, Municipal Airport, Reed Road Swamp, Mendon Ponds Park, Corbett's Glen).—Dec. 24; 8 A.M. to 5 P.M. Partly cloudy; 8-12 in. snow on ground, following heaviest snowfall in December history—22.4 in. on Dec. 12; ponds frozen, Lake Ontario free of ice except shore; wind 8-10 m.p.h.; temp. 14° at start, 26° at finish. Twenty-one observers in 12 groups. Total hours afield, 56; total party miles, 50 (on foot). Common loon, 2; red-throated loon, 2; Holboell's grebe, 1; Canada goose, 1; mallard, 325±; red-legged and common black duck, 350±; greater scaup, 250; lesser scaup, 50±; Am. golden-eye, 67; buffle-head, 2; old-squaw, 47; hooded merganser, 1; Am. merganser, 36; red-breasted merganser, 23; Cooper's hawk, 2; red-tailed hawk, 1; red-shouldered hawk, 1; rough-legged hawk, 1; sparrow hawk, 3; pheasant, 339±; Florida gallinule, 1 (observed at 50 ft. walking on edge of partially frozen swamp stream.—G.M.M., and J.W.T.); coot, 2; great black-backed gull, 9; herring gull, 600±; ring-billed gull, 80±; Bonaparte's gull, 52; screech owl, 1; great horned owl, 1; long-eared owl, 1; short-eared owl, 6; hairy woodpecker, 16; downy woodpecker, 64; prairie horned lark, 3; blue jay, 5; crow, 410; black-capped chickadee, 229; white-breasted nuthatch, 63; red-breasted nuthatch, 2; brown creeper, 8; winter wren, 5; robin, 1; golden-crowned kinglet, 4; cedar waxwing, 77; starling, 890±; English sparrow, 340±; cardinal, 9; redpoll, 2; goldfinch, 28; slate-colored junco, 36; tree sparrow, 74; swamp sparrow, 3; song sparrow, 7. TOTAL, 53 species and subspecies; 4533± individuals.—JAMES BARLOW, DONALD BIEBER, ALBERT BUSEWITZ, GERTRUDE DAVIS, WILLIAM L. G. EDSON, ROBERT FOLKER, JACK D. FRENCH, JACOB

GRAMLICH, DAVID MCGREGOR, GORDON M. MEADE, SGT. HOWARD MILLER, DONALD PARKER, LUCIUS PAUL, THOMAS ROWE, HUGH and OSCAR SCHAEFER, AMBROSE SECKER, ELMER SIEBERT, LEO TANGHE, JOSEPH W. TAYLOR, MALCOLM WEED (Genesee Ornithological Society).

SCHENECTADY, N. Y. (Mohawk River from Lock 8 to Mohawk View, Collins Lake, Woestina Sanctuary and lower Rotterdam Hills, Central Park, Niskayuna, Indian Ladder, Watervliet Reservoir, Fuller and Oxford Road sections of Albany, plus urban and suburban intervening territory; urban and suburban 5%, farmyards 5%, open farmland 40%, light deciduous woods 20%, mixed deciduous and evergreen woods 10%, brushy hillsides and ravines 10%, cattail marsh 10%).—Dec. 24; 8 A.M. to 5 P.M. Clear in A.M., cloudy in P.M.; temp. 18° to 32°; ground frozen; light, partial covering of old snow, except Indian Ladder area with 6-8-in. snow; minimum of open water; wind W, 0-5 m.p.h. Thirty-two observers in 9 parties, plus urban and suburban records. Total hours, 44; total miles, 181 (52 on foot, 129 by car). Black duck, 2; Am. merganser, 1; red-tailed hawk, 2; rough-legged hawk, 2; marsh hawk, 1; sparrow hawk, 7; ruffed grouse, 6; pheasant, 13; great horned owl, 2; kingfisher, 2; pileated woodpecker, 2; flicker, 2; hairy woodpecker, 22; downy woodpecker, 50; blue jay, 96; crow, 232; black-capped chickadee, 262; white-breasted nuthatch, 56; red-breasted nuthatch, 2; brown creeper, 26; winter wren, 1; robin, 1; hermit thrush, 2; bluebird, 8; golden-crowned kinglet, 18; cedar waxwing, 108; starling, 1394; English sparrow, 710; cowbird, 1; cardinal, 1; purple finch, 4; redpoll, 5; pine siskin, 15; goldfinch, 106; slate-colored junco, 53; tree sparrow, 473; white-throated sparrow, 2; fox sparrow, 3; song sparrow, 58; snow bunting, 200. TOTAL, 40 species; 3951 individuals. (Cardinal, white-throated sparrow, and fox sparrow—all of them new on local Christmas count—regularly seen in same small feeding area in Scotia.)—ALICE ABEL, PAULINE E. BAKER, GUY BARTLETT, WILLIAM G. BARTLETT, MRS. LAURA BECK, ELIZABETH BIGSBEE, MARY E. CHRISTIE, MARY ELLIS, MR. and MRS. FRANK FREESE, VIRGINIA FRELIGH, ERLY HALLENBECK, IDELLA HEACOX, ALICE HOLMES, MR. and MRS. H. G. KELLEY, MARILYN KELLEY, MR. and MRS. PAUL KORNEKE, B. D. MILLER, P. SCHUYLER MILLER, MR. and MRS. C. N. MOORE, RUTH REITZLOFF, MRS. M. E. REXFORD, VINCENT J. SCHAEFER, MINNIE B. SCOTLAND, MR. and MRS. E. W. SCOTT, BENTON R. SEGUIN, BEATRICE SULLIVAN, NELLE VAN VORST, FRANCES REEVES (Schenectady Bird Club).

STATEN ISLAND, N. Y. (Richmond, Oakwood Heights, Bay Terrace, Great Kill, Prince Bay, Pleasant Plains, Richmond Creek, Egbertville, Dongan Hills, Emerson Hill, Little Clove, Grymes Hill; brushy wasteland 30%, cattail marsh 5%, salt marsh 25%, open deciduous woodland 10%, seashore 15%, residential streets 5%, farm and pastureland 5%, fresh-water streams and ponds 5%).—Dec. 24; 7:30 A.M. to 5 P.M. Cloudy; ground lightly snow covered; ground and ponds frozen; A.M. still, P.M. light E wind about 10 m.p.h.; temp. 31° at start, rising slightly. About 32 miles on foot. Three observers,

mostly apart. Canada goose, 12; black duck, 528; greater scaup, 1500 (est.); Am. golden-eye, 34; buffle-head, 6; old-squaw, 12; red-breasted merganser, 1; Cooper's hawk, 1; red-tailed hawk, 2; marsh hawk, 2; sparrow hawk, 3; ring-necked pheasant, 7; killdeer, 2; glaucous gull, 1 (Beil); great black-backed gull, 20; herring gull, 5000 (est.); barn owl, 1; flicker, 5; downy woodpecker, 7; horned lark, 40; blue jay, 23; crow, 35; black-capped chickadee, 14; white-breasted nuthatch, 9; robin, 2; Am. pipit, 5 (Cleaves, Beil); starling, 777; myrtle warbler, 2; English sparrow, 79; purple (?) grackle, 1 (H.C.); cardinal, 21 (8 in one group—Ellison); goldfinch, 36; slate-colored junco, 61; tree sparrow, 67; white-throated sparrow, 25; song sparrow, 22; snow bunting, 1 (with flock of 40 horned larks). TOTAL, 37 species; about 8364 individuals. (Seen in area Dec. 27, Belted Kingfisher, 1.)—CARLTON BEIL, HOWARD CLEAVES, LEE ELLISON (Staten Island Bird & Nature Club).

[Another count was taken Dec. 31 on Staten Island by George H. Walleit, Jr., Carlita Nesslinger, Miriam C. Stryker, and Mathilda Weingartner. Together with the above list, the territory corresponds roughly to the area covered by previous Staten Island counts. No species were found on Dec. 31 that were not observed by the Dec. 24 group. Totals were 19 species and 312 individuals.—Ed.]

SYRACUSE, N. Y. (Onondaga Lake; Dewitt Swamp and along Erie Canal from Butternut Creek to Limestone Creek, Fayetteville, White Lake area and Lyndon; lake 10%, swamp 10%, open farmland 30%, mixed second growth 50%).—Dec. 31; 9 A.M. to 5:30 P.M. Cloudy; 15-in. snow on ground; lake mostly frozen; wind NE, 4-5 m.p.h.; temp. 29° to 34°. Total miles 28 (12 by car, 16 afoot). Black duck, 89; Am. golden-eye, 18; buffle-head, 1; Am. merganser, 56; Cooper's hawk, 2; sparrow hawk, 2; pheasant, 42; herring gull, 217; rock dove, 136; downy woodpecker, 7; blue jay, 2; crow, 21; black-capped chickadee, 34; northern shrike, 1; starling, 1600 (est.); English sparrow, 700 (est.); cardinal, 2; tree sparrow, 13. TOTAL, 18 species; 2943 individuals.—GEORGE D. RUBY.

WATERTOWN, N. Y. (a circle not exceeding a 15-mile diameter with Public Square the center; deciduous woodland 32%, country roads 14%, open farmland 31%, streets 14%, river banks 9%).—Dec. 31. Cloudy; temp. 28°; no wind; 2-3 ft. snow on level; water frozen. Fifteen observers (3 pairs, rest singly). Total hours, 14; total miles, 21½ (on foot, snowshoes, or skis). Canada ruffed grouse, 2; Hungarian partridge, 15; ring-necked pheasant, 18; herring gull, 6; rock dove, 83; hairy woodpecker, 4; downy woodpecker, 6; blue jay, 8; black-capped chickadee, 43; white-breasted nuthatch, 5; red-breasted nuthatch, 1; brown creeper, 1; cedar waxwing, 41; starling, 373; English sparrow, 320; cardinal, 2. TOTAL, 16 species; 928 individuals.—L. W. BLANDING, M. LEWIS, F. CLINCH, L. FITSIMMONS, MRS. C. GETMAN, EB GRANT, S. T. KEILEY, ERMA SCHELL, A. STEVENS, DR. S. SIMPSON, MR. AND MRS. R. TAYLOR, FAITH COMMON, MR. AND MRS. J. A. COMMON.

BOONTON, N. J. (an area not exceeding a 15-mile diameter, similar to previous years except for inclusion of Hatfield swamp and a few spots usually covered by the Essex County count; deciduous woodland 30%, open marsh 20%, wooded swamp 20%, pastureland 15%, miscellaneous 15%).—Dec. 31; 7 A.M. to 6 P.M. Overcast with freezing drizzle followed by low fog and light rain; visibility reduced to 50 yds. over land, zero over water; lakes and ponds frozen; water levels about normal; rivers open; ground and marshes frozen; snow blanket 4-6 inches; wind very light E; temp. 31° to 36°. Sixteen observers in 5 parties. Total hours afield, 52 (42 on foot, 10 by car); total party miles, 126 (46 on foot, 80 by car). Mallard, 2; black duck, 11; hooded merganser, 2; Am. merganser, 4; sharp-shinned hawk, 1; red-tailed hawk, 12; red-shouldered hawk, 4; rough-legged hawk, 3; sparrow hawk, 8; ruffed grouse, 1; pheasant, 6; mourning dove, 3; great horned owl, 5; barred owl, 1; long-eared owl, 1; saw-whet owl, 1; kingfisher, 2; flicker, 4; red-headed woodpecker, 2; hairy woodpecker, 5; downy woodpecker, 56; n. horned lark, 50; blue jay, 205; crow, 71; black-capped chickadee, 256; tufted titmouse, 135; white-breasted nuthatch, 68; brown creeper, 8; winter wren, 1; catbird, 1 (E.B.L., et al.); robin, 1; hermit thrush, 1; bluebird, 11; golden-crowned kinglet, 9; n. shrike, 1; starling, 715; English sparrow, 363; meadowlark, 2; red-wing, 10; cardinal, 11; goldfinch, 89; junco, 437; tree sparrow, 1569; field sparrow, 8; white-throated sparrow, 31; swamp sparrow, 33; song sparrow, 62. TOTAL, 47 species; 4282 individuals. (Pileated woodpecker, 2; rusty blackbird, 1; purple finch, 7; included in a count of 23 species from Morristown National Historical Park just outside the area—P. W. Foster, E. S. Weig.)—C. D. BROWN, T. BUTLER, T. D. CARTER, WM. DOWNING, J. L. EDWARDS, J. M. IRVINE, JR., D. KUNKLE, E. B. LANG, N. NIOSI, A. PETERSON, R. PETERSON, R. D. ROSS, H. VAN DEUSEN, R. THORSELL, SGT. R. WHITING, F. P. WOLFEARTH (members and guests, Umer Ornithological Club).

CAPE MAY, N. J. (7½-mile radius from Rio Grande, Cape May County; salt marsh 30%, woodland 30%, cultivated land 30%, sand beach 10%).—Dec. 31. Overcast, with rain at intervals; temp. 37° at start, 38° at return; wind SW, 1-7 m.p.h. Twenty-three observers in 10 parties. Total hours, 184 (178 on foot, 6 by car); total miles 327 (267 on foot, 60 by car). Common loon, 16; red-throated loon, 7; horned grebe, 31; double-crested cormorant, 15; great blue heron, 19; Am. egret, 2 (J.K.P., E.W.M., and E.W.M.); little blue heron, 1 (imm.); black-crowned night heron, 43; Am. bittern, 2; mallard, 2; black duck, 1772; pintail, 1; blue-winged teal, 3; scaup, 50; golden-eye, 33; buffle-head, 21; old-squaw, 205; Am. scoter, 215; white-winged scoter, 3800; surf scoter, 15; ruddy duck, 4; hooded merganser, 17; Am. merganser, 3; red-breasted merganser, 72; turkey vulture, 69; sharp-shinned hawk, 5; Cooper's hawk, 8; red-tailed hawk, 7; red-shouldered hawk, 1; rough-legged hawk, 1; bald eagle, 6; marsh hawk, 27; osprey, 1 (H.W.B.; also seen regularly during preceding week); sparrow hawk, 3; bob-white, 1; clapper rail, 1; killdeer, 8; black-

bellied plover, 25; woodcock, 1; purple sandpiper, 1; least sandpiper, 5; red-backed sandpiper, 1313; western sandpiper, 21; sanderling, 169; great black-backed gull, 11; herring gull, 1790; ring-billed gull, 103; Bonaparte's gull, 25; black skimmer, 2 (J.K.P., E.W.M., and E.W.M.); dovekie, 1 (J.K.P., E.W.M., and E.W.M., seen swimming off beach); mourning dove, 171; screech owl, 1; great horned owl, 3; belted kingfisher, 4; flicker, 14; hairy woodpecker, 5; downy woodpecker, 33; phoebe, 1; horned lark, 119; tree swallow, 188; blue jay, 21; crow, 2020; fish crow, 26; Carolina chickadee, 94; tufted titmouse, 90; white-breasted nuthatch, 3; red-breasted nuthatch, 1; brown creeper, 1; winter wren, 2; Carolina wren, 15; mockingbird, 1; catbird, 2; robin, 1259; hermit thrush, 10; bluebird, 186; golden-crowned kinglet, 6; Am. pipit, 93; migrant shrike, 1; starling, 2666; myrtle warbler, 4440; English sparrow, 282; meadowlark, 294; red-wing, 466; rusty blackbird, 9; purple grackle, 229; cowbird, 513; cardinal, 51; purple finch, 1; goldfinch, 211; towhee, 5; Ipswich sparrow, 14; savannah sparrow, 18; sharp-tailed sparrow, 7; vesper sparrow, 24; slate-colored junco, 287; tree sparrow, 199; chipping sparrow, 1; field sparrow, 29; white-throated sparrow, 227; fox sparrow, 9; swamp sparrow, 14; song sparrow, 243. TOTAL, 102 species; approximately 24,559 individuals.—JAMES L. WHITAKER, RALPH C. PRESTON, NORMAN J. McDONALD, PHILIP A. LIVINGSTON, HARRY W. BROWN, ERNEST A. CHOATE, PETER SPRUANCE, JOSEPH JACOBS, EDWARD R. MANNERS, OSCAR JOYCE, ROBERT L. HAINES, J. HAROLD AUSTIN, PHILIP MARVIN, WORTH RANDALL, BARTRAM B. CADBURY, JOHN H. ARNETT, JR., JULIAN K. POTTER, E. WAYNE MARSHALL, EDWARD W. MARSHALL, JAMES H. WRIGHT, HARRY LANCE, WILLIAM MILLER, DALE R. COMAN (Delaware Valley Ornithological Club).

GREAT SWAMP—WATCHUNG RIDGES (7½-mile radius from New Providence; mixed hardwoods 50%, evergreen forests 10%, fields and thickets 30%, towns 10%).—Jan. 1. 6 A.M. to 5:30 P.M. Rain; temp. 36° to 48°; wind s-w, 10-15 m.p.h.; ground covered with 1-in. snow. Eleven observers in 6 parties, plus almost day-long observations at 7 feeding stations maintained by members of Summit Nature Club. Total hours, 34; total miles, 30 (on foot). Common black duck, 3; red-legged black duck, 32; Cooper's hawk, 1; red-tailed hawk, 2; marsh hawk, 1; sparrow hawk, 1; pheasant, 1; long-eared owl, 5; kingfisher, 1; flicker, 4; hairy woodpecker, 3; downy woodpecker, 16; blue jay, 125; crow, 120; black-capped chickadee, 55; tufted titmouse, 51; white-breasted nuthatch, 16; brown creeper, 2; Carolina wren, 1; robin, 31; hermit thrush, 1; bluebird, 33; golden-crowned kinglet, 2; cedar waxwing, 54; starling, 206; myrtle warbler, 8; English sparrow, 91; purple grackle, 1; cardinal, 20; pine siskin, 10; goldfinch, 9; junco, 196; tree sparrow, 126; field sparrow, 2; white-throated sparrow, 20; fox sparrow, 2; song sparrow, 8. TOTAL, 37 species and subspecies; 1260 individuals.—FRANK BARTEL, GILBERT CANT, DAVID DOWNS, DAVID FABLES, GEORGE HUGHES, JOHN T. S. HUNN, PAUL SHUBECK, EDWIN STEARNS, CLAUDE WHITE, ETHEL and GLEN WOOLFENDEN.

LAKEHURST, N. J. (2 miles southwest to 5 miles southeast of town, by bus to Toms River; pine woods 80%, cedar swamps 10%, towns 10%).—Dec. 24; 7 A.M. to 5 P.M. Cloudy, with scattered sleet in A.M.; temp. 22° at start, 38° at return; wind NW, 1-7 m.p.h.; ground covered with 1-in. snow; streams flowing, Lake Horicon and Pine Lake frozen. Total hours, 10; total miles, 16 (on foot). Mallard, 4; black duck, 6; Am. merganser, 1; bobwhite, 5; herring gull, 15; ring-billed gull, 2; rock dove, 8; screech owl, 2; yellow-bellied sapsucker, 1 (observed at 25 ft. with 8x binoculars); downy woodpecker, 7; blue jay, 65; crow, 9; black-capped chickadee, 1; Carolina chickadee, 25; tufted titmouse, 18; white-breasted nuthatch, 23; red-breasted nuthatch, 1; brown creeper, 4; robin, 2; bluebird, 1; golden-crowned kinglet, 14; starling, 55; myrtle warbler, 3; English sparrow, 12; cardinal, 1; goldfinch, 20; red crossbill, 1; red-eyed towhee, 2; slate-colored junco, 55; tree sparrow, 25; white-throated sparrow, 20; song sparrow, 8. TOTAL, 32 species, 416 individuals.—DAVID FABLES.

LEONIA, N. J. (Overpeck marsh and vicinity).—Dec. 31; 10 A.M. to 5:30 P.M. Overcast with intermittent drizzles; heavy mist in P.M.; about 1-in. snow on ground; creek mostly frozen; wind NW; temp. 40° at start, 39° at return. Three observers together. Total hours, 7½; total miles, 25 (on foot). Black duck, 8; golden-eye, 2; Am. merganser, 5; Cooper's hawk, 1; red-tailed hawk, 2; rough-legged hawk, 1; duck hawk, 1; sparrow hawk, 3; ring-necked pheasant, 1; great black-backed gull, 1; herring gull, 143; rock dove, 35; barred owl, 1; kingfisher, 1; flicker, 1; downy woodpecker, 3; hairy woodpecker, 1; blue jay, 6; crow, 1; black-capped chickadee, 8; tufted titmouse, 2; white-breasted nuthatch, 5; starling, 150 (est.); pipit, 47; English sparrow, 40 (est.); red-wing, 20; meadowlark, 1; junco, 16; tree sparrow, 180 (est.); field sparrow, 8; white-throated sparrow, 65 (est.); fox sparrow, 7; swamp sparrow, 50; song sparrow, 108 (est.). TOTAL, 34 species; about 924 individuals.—ROBERT and DAVID DEMARS, ARTHUR CICERO.

LONG BRANCH, N. J. (Oceanport to Wreck Pond, avoiding military areas; pine barrens 15%, residential areas 10%, beach front 10%, tidal flat 15%, lakes and ponds 10%, grass and bush-covered fields 40%).—Dec. 24; 7:30 A.M. to 6 P.M. Cloudy; temp. 36° at start, 46° at return; wind none at start to E after 10 A.M., about 10 m.p.h.; ½-in. snow; ponds mostly frozen. One to 4 observers in 1 party. Total hours afield, 9½ (7 on foot), total miles, 32 (20 by car, 12 on foot). Common loon, 3; red-throated loon, 4; great blue heron, 1; Canada goose, 16; mallard, 19; black duck, 132; baldpate, 43; shoveller, 5; ruddy duck, 4; Am. merganser, 17; marsh hawk, 2; sparrow hawk, 4; pheasant, 2; coot, 2; killdeer, 9; Wilson's snipe, 1; great black-backed gull, 32; herring gull, 800+; ring-billed gull, 12; Bonaparte's gull, 6; mourning dove, 2; kingfisher, 1; flicker, 1; downy woodpecker, 2; blue jay, 8; crow, 12; Carolina chickadee, 19; tufted titmouse, 8; white-breasted nuthatch, 2; mockingbird, 1; robin, 1; starling, 350+; myrtle warbler, 55; English sparrow, 25; meadowlark, 4; cardinal, 1; goldfinch, 3;

junco, 20; tree sparrow, 22; chipping sparrow, 1; field sparrow, 3; song sparrow, 2. TOTAL, 42 species; about 1657 individuals. (Seen in territory Dec. 27; hairy woodpecker, 1; horned lark, 11; bluebird, 10; white-throated sparrow, 5; Dec. 30: Carolina wren, 1.)—JOHN S. GORHAM, WALTER T. SILVER, SGT. ROBERT WHITING, GEORGE M. SEELEY.

LOWER PALISADES INTERSTATE PARK, N. J. (Closter east 4 miles through Alpine to Hudson River and south 7 miles through park to George Washington Bridge; mixed hardwoods with some conifers 70%, open water 25%, swamp 5%).—Dec. 26; 8:15 A.M. to 5:15 P.M. Clear; temp. 28° to 40°; wind NW, 8-12 m.p.h.; ground covered with 2-in. crusted snow; water open. Five observers together. Total hours, 9½ (on foot); total miles, 11 (on foot). Black duck, 21; greater scaup, 5; Am. golden-eye, 17; Am. merganser, 20; buteo (sp.?), 1; duck hawk, 1; sparrow hawk, 1; Iceland gull, 1; black-backed gull, 4; herring gull, 250 (est.); rock dove, 60; hairy woodpecker, 1; downy woodpecker, 6; blue jay, 46; crow, 4; black-capped chickadee, 93; tufted titmouse, 27; white-breasted nuthatch, 13; winter wren, 1; robin, 1; hermit thrush, 1; bluebird, 12; golden-crowned kinglet, 2; starling, 50; myrtle warbler, 48; English sparrow, 65; cardinal, 2; goldfinch, 19; slate-colored junco, 125; tree sparrow, 88; field sparrow, 13; white-throated sparrow, 10; fox sparrow, 2; swamp sparrow, 1; song sparrow, 24. TOTAL, 35 species; about 1035 individuals.—J. SOLL, B. FERGERSON, A. WEINBURG, D. ROCHE, G. KOMOROWSKI.

MOUNT HOLLY, N. J. (same area as in previous years).—Dec. 24; 7 A.M. to 5 P.M. Cloudy; ground partly covered with snow; temp. 30° at start, 28° at return. Observers in 2 groups. Total miles, 66 (48 by car, 18 by foot). Mallard, 4; black duck, 68; lesser scaup, 7; golden-eye, 15; Am. merganser, 4; red-breasted merganser, 2; turkey vulture, 3; Cooper's hawk, 2; red-tailed hawk, 5; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 7; killdeer, 3; herring gull, 2; ring-billed gull, 2; mourning dove, 11; belted kingfisher, 1; hairy woodpecker, 6; downy woodpecker, 13; horned lark, 100; blue jay, 16; crow, 350; black-capped chickadee, 30; tufted titmouse, 12; brown creeper, 1; winter wren, 3; Carolina wren, 4; robin, 5; hermit thrush, 5; bluebird, 3; golden-crowned kinglet, 7; cedar waxwing, 5; starling, 140; myrtle warbler, 3; English sparrow, 30; meadowlark, 4; red-wing, 2; cardinal, 41; goldfinch, 12; junco, 370; tree sparrow, 62; white-throated sparrow, 203; fox sparrow, 1; song sparrow, 21. TOTAL, 44 species; 1606 individuals.—DORIS F. HIGLEY, J. RUSSELL SPROW, NELSON D. W. PUMYEA.

PRINCETON, N. J. (village, estates, fields, upland and lowland deciduous woods and red-cedar groves; lake, ponds, marshes, swamps and some streams frozen; within a 7-mile diameter).—Dec. 31; 7 A.M. to 6 P.M., E.S.T. Cloudy, some drizzle, P.M. foggy; all but calm; temp. around 36°; ground barely covered with ice and snow. Twelve observers in 7 to 9 parties. Total hours, 42½, plus all day at a home feeding station; total miles, 59 (49 afoot, 5 by car, 5 by bicycle). Canada goose, 42; mallard, 40; black duck, 3; baldpate, 6; Cooper's hawk, 1;

Accipiter sp., 1; red-tailed hawk, 2; red-shouldered hawk, 1; pheasant, 11; mourning dove, 100; great horned owl, 2; flicker, 6; sapsucker, 1; hairy woodpecker, 7; downy woodpecker, 62; horned lark, flock of 60; blue jay, 65; Am. crow, 400; fish crow, 3; chickadee, 34 (at least 10 black-capped, 6 Carolina); tufted titmouse, 82; white-breasted nuthatch, 48; brown creeper, 5; winter wren, 1; Carolina wren, 3; hermit thrush, 2; bluebird, 90; golden-crowned kinglet, 13; starling, 188; myrtle warbler, 80; English sparrow, 230; meadowlark, 10; red-wing, 5-10; cardinal, 57; purple finch, 8; goldfinch, 49; junco, 337; tree sparrow, 305; field sparrow, 1; white-throated sparrow, 26; swamp sparrow, 4; song sparrow, 42. TOTAL, 42 species; about 2440 individuals. At least 70 bluebirds in one flock (Laws), phenomenal here; others scattered.—D. M. COMPTON, D. W. DIGNAN, VIRGINIA FRANCIS, J. P. GEE, E. T. GOODRIDGE, R. M. HERRIOTT, MR. and MRS. R. R. LAW, C. H. and M. S. ROGERS, A. L. SHINN, THOMAS SMYTH.

RARITAN ESTUARY, N. J. (same area as in former years: 7½-mile radius from Bonhamtown, excluding Staten Island, 1½ miles of bay shore; salt meadows 15%, fresh-water swamp 15%, swampy woods 15%, deciduous woodland 15%, pine barrens 5%, open farmland 20%, towns 10%).—Dec. 26; 6 A.M. to 6 P.M. Clear (extreme visibility); temp. 35° at 6 A.M., 30° at noon, 23° at 6 P.M.; wind W to NW, 15-25 m.p.h.; ground mostly frozen, traces of old snow; ponds and swamps frozen, running water open except for ice on margins. Nine observers: 4 parties to noon, then 3. Total hours, 42 (24 on foot); total miles on foot, 33. Black duck, 10; wood duck, 1; greater scaup, 520; lesser scaup, 50; golden-eye, 10; buffle-head, 2; old-squaw, 8; white-winged scoter, 1; Am. merganser, 5; red-breasted merganser, 24; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; rough-legged hawk, 2; marsh hawk, 5; sparrow hawk, 3; pheasant, 7; killdeer, 3; black-backed gull, 1; herring gull, 243; ring-billed gull, 8; Bonaparte's gull, 5; rock dove, 11; hairy woodpecker, 3; downy woodpecker, 12; n. horned lark, 56; blue jay, 23; crow, 3000 est. in roost (includes 193 observed in daytime); black-capped chickadee, 39; Carolina chickadee, 6; titmouse, 18; white-breasted nuthatch, 18; Carolina wren, 1; robin, 2; bluebird, 22; golden-crowned kinglet, 1; starling, 25,000 est. in roost (includes 788 observed in daytime); myrtle warbler, 31; English sparrow, 134; meadowlark, 1; red-wing, 1000 est. in roost (includes 59 observed in daytime); bronzed grackle, 1; grackle (subsp.?), 500 est. in roost; cowbird, 500 est. in roost (includes 8 observed in daytime); cardinal, 21; goldfinch, 11; sharp-tailed sparrow, 1; slate-colored junco, 154; tree sparrow, 127; field sparrow, 2; white-throated sparrow, 7; swamp sparrow, 1; song sparrow, 16. TOTAL, 53 species and subspecies; 31,632 individuals (partly est.). The great icterid-starling roost (normally 250,000 birds) was virtually emptied by the early cold snap (8° on Dec. 22).—FRANK BARTEL, GILBERT CANT, ROBERT CONN, DAVID FABLES, GEORGE T. HUGHES, JOHN T. S. HUNN, PAUL SHUBECK, EDWIN I. STEARNS, CLAUDE WHITE (members, Urner Ornithological Club).

RIDGEWOOD, N. J. (same area as in past years; woodland 25%, meadow 17%, fresh-water marsh 15%, farmland 5%, brush 25%, stream 5%, feeding stations 3%; all ponds ice covered).—Dec. 30; 9 A.M. to 4:30 P.M. Fair, temp. 19° min., 30° max.; wind 5-8 m.p.h., w; ground snow covered. Nineteen observers in 15 parties. Total hours, 68½; total miles, 82 (15 by car, 67 on foot). Canada goose, 11; black duck, 8; sharp-shinned hawk, 1; Cooper's hawk, 2; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 5; ring-necked pheasant, 2; killdeer, 1; herring gull, 16; mourning dove, 22; kingfisher, 1; flicker, 1; hairy woodpecker, 6; downy woodpecker, 54; blue jay, 191; crow, 57; black-capped chickadee, 351; tufted titmouse, 78; white-breasted nuthatch, 92; brown creeper, 6; winter wren, 1; robin, 4; hermit thrush, 6; bluebird, 6; golden-crowned kinglet, 7; starling, 483; myrtle warbler, 2; English sparrow, 775; red-wing, 2; cowbird, 1; cardinal, 21; purple finch, 16; goldfinch, 53; towhee, 3; junco, 707; tree sparrow, 614; field sparrow, 81; white-throated sparrow, 100; fox sparrow, 4; swamp sparrow, 2; song sparrow, 109. TOTAL, 42 species; 3905 individuals. (Screech owl and cedar waxwings seen in area Dec. 27).—MRS. I. J. ADAMS, MRS. R. H. BAKER, MRS. F. G. DUNHAM, MRS. G. B. FETTER, MRS. L. FUSSEY, MRS. R. H. GAEDF, MRS. F. J. MCKENNA, MR. and MRS. C. K. NICHOLS, MRS. H. E. ROWLANDS, MRS. G. E. SHERWOOD, MRS. J. VANSAUN, MRS. A. W. WALTER, MRS. RAY WATTS, MRS. J. Y. DATER, JR., J. L. BREWER, P. H. GROSCH, FRED RUSSELL, PETER VAIL (Ridgewood Audubon Society), assisted by 13 scouts.

SPARTA, N. J. (woods and fields bordering Lake Mohawk, plus area between Sparta, Newton, and Branchville; open fields 40%, deciduous woods 30%, landscaped lawns and gardens 20%, hemlock woods 5%, frozen marshland 5%).—Dec. 24; 8 A.M. to 5:50 P.M. Cloudy, threatening snow; temp. 28° to 34°; wind, NW, 1-7 m.p.h.; ground covered with 5-in. fresh snow; all lakes frozen over. One observer 5 hours, 3 observers 3 hours. Total hours, 8; total miles, 40 (16 on foot, 24 by car). Ruffed grouse, 1; great horned owl, 1; screech owl, 2 (1 dead); hairy woodpecker, 1; downy woodpecker, 15; blue jay, 13; crow, 21; black-capped chickadee, 53; white-breasted nuthatch, 8; brown creeper, 3; robin, 2; hermit thrush, 1; bluebird, 7; golden-crowned kinglet, 1; starling, 300 (est.); English sparrow, 100 (est.); cowbird, 8; cardinal, 2; pine siskin, 3; goldfinch, 44; slate-colored junco, 33; tree sparrow, 130; swamp sparrow, 1; song sparrow, 1. TOTAL, 24 species; about 751 individuals.—B. C. HIATT, MRS. E. V. RODIMER, E. CASE.

ALLENTOWN, PA. (Cedar Crest Boating Lake, Trexler Memorial Park, 8 miles west to Trexler-town, then 6 miles southwest to private sanctuary; open farmland 25%, cattail marsh 40%, deciduous woodlot 10%, pine woodlot 5%, small ponds 20%).—Dec. 31; 9 A.M. to 5 P.M. Misty; temp. 30° to 35°; wind E, 1 m.p.h.; ground covered with 5-in. crusted snow; edges of streams frozen, portions of ponds frozen. Three observers together. Total hours, 8 (7¼ on foot, ¾ by car); total miles, 27 (7 on foot, 20 by car). Mallard, 9; black duck, 100; baldpate, 4;

ring-necked duck, 1; canvas-back, 1; sharp-shinned hawk, 1; sparrow hawk, 1; ruffed grouse, 1; pheasant, 9; mourning dove, 15; kingfisher, 1; flicker, 1; hairy woodpecker, 3; downy woodpecker, 4; blue jay, 2; crow, 500 (est.); black-capped chickadee, 9; tufted titmouse, 1; winter wren, 1; starling, 200; English sparrow, 250; cardinal, 1; slate-colored junco, 84; tree sparrow, 36; song sparrow, 19. TOTAL, 25 species; about 1254 individuals.—HERMAN A. WEIL, CARL E. and EARL E. MONTGOMERY.

ELVERSON (CHESTER CO.), PA. (7½-mile radius from Marsh P. O.); cedar groves and thickets 15%, meadows and swampland 15%, deciduous woods 30%, upland fields 40%).—Dec. 30; dawn to dusk. Cloudy and raw with frequent snow flurries; temp. 22° to 29°; wind W, 7-10 m.p.h., ground covered with 3-in. crusted snow; streams frozen. Seven observers in 3 parties. Total hours afoot, 18; total miles afoot, 21; car used only for transportation. Black duck, 3; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; marsh hawk, 4; sparrow hawk, 2; ruffed grouse, 2; pheasant, 7; killdeer, 2; Wilson's snipe, 14; rock dove, 45; mourning dove, 5; great horned owl, 2; flicker, 8; hairy woodpecker, 5; downy woodpecker, 37; phoebe, 1; northern horned lark, 250; jay, 24; crow, 400; black-capped chickadee, 27; titmouse, 39; white-breasted nuthatch, 6; winter wren, 1; waxwing, 16; starling, 407; English sparrow, 438; meadowlark, 17; cardinal, 58; purple finch, 7; goldfinch, 34; junco, 632; tree sparrow, 64; white-throated sparrow, 14; swamp sparrow, 1; song sparrow, 43; Lapland longspur, 3; snow bunting, 9. TOTAL, 38 species; 2632 individuals. (Seen in area Dec. 28: rough-legged hawk, 1; hermit thrush, 2—Fred Colwell; Dec. 31: robin, 1; screech owl, 1; Dec. 27: vesper sparrow, 3; cowbird, 1—Sigman.)—RUTH MARY WAGNER, JOHN KRUPPENBACH, PAUL KURTZ, EUGENE BEILER, ARTHUR SIGMAN, PAUL MARTIN, ALBERT CONWAY.

GLENOLDEN, PA. (to Raccoon Island, N. J., Prospect Park, Swarthmore, Media, Pa., and vicinity).—Dec. 31; 7 A.M. to 5 P.M. Heavy foggy drizzle until noon, turning to rain in P.M.; visibility poor; temp. 30° to 36°; no wind. Fifteen observers in 8 parties. Total hours, 28½ (25½ on foot, 3 in car); total miles, 70½ (36½ on foot, 34 in car). Great blue heron, 3; mallard, 25; black duck, 338; baldpate, 1; pintail, 2; golden-eye, 2; ruddy duck, 7; Am. merganser, 28; turkey vulture, 3; Cooper's hawk, 1; red-tailed hawk, 8; red-shouldered hawk, 1; marsh hawk, 3; sparrow hawk, 2; bob-white, 16; ring-necked pheasant, 2; coot, 1; herring gull, 11; ring-billed gull, 5; rock dove, 11; mourning dove, 51; long-eared owl, 1; kingfisher, 3; flicker, 3; hairy woodpecker, 5; downy woodpecker, 49; blue jay, 56; crow, 302; Carolina chickadee, 2; tufted titmouse, 68; white-breasted nuthatch, 25; brown creeper, 3; winter wren, 1; Carolina wren, 10; robin, 2; bluebird, 35; golden-crowned kinglet, 2; cedar waxwing, 14; starling, 203; English sparrow, 107; red-wing, 56; cardinal, 91; purple finch, 4; goldfinch, 16; red-eyed towhee, 7; savannah sparrow, 3; slate-colored junco, 417; tree sparrow, 208; field sparrow, 29; white-throated sparrow, 160; fox spar-

row, 2; swamp sparrow, 6; song sparrow, 95. TOTAL, 53 species; about 2506 individuals.—ANNA and VICTOR DEBES, MARPLE LEWIS, PAUL MARTIN, ALBERT CONWAY, ALAN CRAWFORD, STANLEY HIBBERD, TEDDY and JAMES RIGBY, TED RIGBY, RICHARD BENDER, SAM MATTSO, JR., LAMARR JOHNSON, MARF. and JOHN GILLESPIE.

HARRISBURG, PA. (Wildwood Park and vicinity, not so much area as former years; farmland 40%, town suburbs 5%, woodlands 25%, marshes 20%, old fields 10%).—Dec. 30; 8:15 A.M. to 3:45 P.M. Cloudy and snow flurries; temp. 18° at start, 28° at return; 3-5 in. snow; no open water on lake, some creeks open. One observer. Total hours, 7½; total miles, 14 (8 by bicycle, 6 on foot). Black duck, 1; golden-eye, 6; Am. merganser, 4; red-tailed hawk, 1; marsh hawk, 1; sparrow hawk, 4; pheasant, 49; mourning dove, 1; hairy woodpecker, 1; downy woodpecker, 18; horned lark, 4; blue jay, 1; crow, 474; tufted titmouse, 33; white-breasted nuthatch, 4; brown creeper, 3; golden-crowned kinglet, 1; starling, 306; English sparrow, 138; meadowlark, 1; cardinal, 19; junco, 41; tree sparrow, 250; white-throated sparrow, 1; song sparrow, 23. TOTAL, 25 species; 1385 individuals.—PAUL WEIRICK.

LANCASTER (LANCASTER CO.), PA. (immediate outskirts of Lampeter, 4 miles southeast of Lancaster, farmland and gardens; an area 1¼ miles square at northwestern edge of Lancaster, consisting of suburban gardens 25%, open meadows above Little Conestoga Creek 25%, brushy swamp 25%, swampy meadows 25%).—Dec. 31. Heavy clouds; temp. 33° to 35°; no wind; foggy; snow on ground; small ponds frozen, small streams open; rain in late P.M. Five observers in 2 parties. Total hours, 8; total miles, 8½ (6 on foot, 2½ by car). Duck (unid.), 1; marsh hawk, 1; sparrow hawk, 3; ring-necked pheasant, 27; killdeer, 1; mourning dove, 11; downy woodpecker, 8; blue jay, 4; crow, 610; tufted titmouse, 4; white-breasted nuthatch, 3; brown creeper, 11; ruby-crowned kinglet, 1; starling, 400; English sparrow, 65; meadowlark, 1; cardinal, 12; goldfinch, 2; junco, 310; tree sparrow, 281; song sparrow, 7. TOTAL, 21 species; 1763 individuals.—MR. and MRS. MARTIN STAPLETON, MR. and MRS. CHARLES Y. TANGER, CY BUCKWALTER (Lancaster County Bird Club).

LITITZ, PA. (center of Lititz in northern Lancaster County, to 6 miles north, Hammer Creek valley and White Oak Pond area; open farmland 50%, deciduous farm woodlots 45%, pine groves 5%).—Dec. 31; 9 A.M. to 4 P.M. Cloudy and very misty; visibility not over 50 ft.; vegetation covered with hoar frost until 1 P.M.; temp. 27° at start, 34° at return; wind E, 1-7 m.p.h.; ground covered with 3-5-in. crusted snow; creeks mostly frozen. Four observers in 2 parties. Total hours, 10; total miles, 20 (12 on foot, 8 by car). Vulture, 6; red-tailed hawk, 2; marsh hawk, 1; sparrow hawk, 4; ring-necked pheasant, 48; mourning dove, 8; short-eared owl, 4; flicker, 6; hairy woodpecker, 1; downy woodpecker, 23; northern horned lark, 10; blue jay, 7; crow, 410; black-capped chickadee, 2; tufted titmouse, 21; white-breasted nuthatch, 9; brown creeper, 1; winter wren, 1; starling, 850; English

sparrow, 400; meadowlark, 1; cardinal, 21; goldfinch, 2; slate-colored junco, 450; tree sparrow, 650; white-throated sparrow, 5; song sparrow, 350 (in 4 different ravines in swampy areas and along small streams) [an extraordinary number; not stated whether actual count—Ed.] TOTAL, 27 species; about 3293 individuals.—BARTON L. SHARP, CHARLES REGENAS, DONALD GARNER, JAMES MARKLEY (Lititz Bird Club).

LUZERNE COUNTY, PA. (including small section of Wyoming County; same area as previous years; all lakes and ponds frozen; Susquehanna River open; at no time more than 7½ miles from Dallas; open farmland and river banks 40%, upland meadows [above 1200 ft.] 15%, lake shore and cattail marsh 5%, coniferous woodland 15%, birch-maple-oak forest 25%).—Dec. 24; overcast, 4-6-in. snow on ground; wind NE, 1-7 m.p.h.; temp. 24° to 32°. Twelve observers in 6 parties. Total hours, 47 (44 on foot, 3 by car); total miles, 92 (52 on foot, 40 by car). Buffle-head, 2 (R.T.); red-tailed hawk, 1; sparrow hawk, 1; ruffed grouse, 2; pheasant, 2; rock dove, 24; screech owl, 1; pileated woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 20; horned lark, 46; blue jay, 25; crow, 348; black-capped chickadee, 361; tufted titmouse, 4; white-breasted nuthatch, 12; brown creeper, 11; winter wren, 3; bluebird, 2; golden-crowned kinglet, 15; ruby-crowned kinglet, 1 (E.H.C.); starling, 1175; English sparrow, 516; meadowlark, 5; cardinal, 4; goldfinch, 376; slate-colored junco, 290; tree sparrow, 866; field sparrow, 3; song sparrow, 36. TOTAL, 30 species; 4155 individuals.—JOHN and WILLIAM ALAN, TED BALCOMB, E. H. CARTY, L. H. HOLDSWORTH, C. NORDSTROM, G. L. RUCKNO, E. SIEGEL, J. SCRIMGEOUR (SR. and JR.), J. C. TRACY, R. TRAX.

PENN MANOR REGION, PA. (South Trenton, N. J., to Tullytown, Pa., not exceeding 15-mile diameter; river front 10%, open farmland 25%, cattail marsh 5%, deciduous forest 15%, woodland patches bordering lake 45%).—Dec. 31. Heavy fog and intermittent rain; temp. 35°; wind SE, 7 m.p.h.; ground partly frozen, lightly snow-covered; lakes frozen, only river channel open. Eight observers in 2 parties. Total hours, 14 (12 on foot, 2 by car); total miles, 53 (24 on foot, 29 by car). Great blue heron, 1; black-crowned night heron, 1; mallard, 9; black duck, 41; baldpate, 1; shoveller, 1; golden-eye, 8; Am. merganser, 6; red-tailed hawk, 2; ring-necked pheasant, 1; coot, 10; killdeer, 2; herring gull, 6; flicker, 1; hairy woodpecker, 4; downy woodpecker, 15; blue jay, 4; crow, 92; fish crow, 2; black-capped chickadee, 8; Carolina chickadee, 3; tufted titmouse, 21; white-breasted nuthatch, 2; brown creeper, 2; winter wren, 4; Carolina wren, 10; robin, 1; hermit thrush, 1; starling, 252; English sparrow, 13; cowbird, 1; cardinal, 11; goldfinch, 9; vesper sparrow, 1; slate-colored junco, 119; tree sparrow, 82; field sparrow, 3; white-throated sparrow, 33; fox sparrow, 1; swamp sparrow, 1; song sparrow, 26. TOTAL, 41 species and subspecies; 811 individuals.—WILLIAM and JUNE WAGONER, RICHARD MILLER, MARCELLA NEWMAN, EDWARD Y. FINKEL, SEYMOUR SCHIFF, EVELYN and QUINTIN KRAMER.

PHILADELPHIA, PA. (Pennypack Creek valley, Delaware River to Valley Falls; public parks 60%, open farmland and meadows 20%, town suburbs 20%).—Dec. 31; 8 A.M. to 4 P.M. Foggy; very poor visibility; mist in P.M.; no wind; temp. 28° to 32°. Nineteen observers in 5 parties. Total hours, 105; total miles, approx. 170. Canada goose, 8; mallard, 23; black duck, 30; pheasant, 10; herring gull, 5; rock dove, 3 (feral); mourning dove, 2; kingfisher, 1; flicker, 1; hairy woodpecker, 6; downy woodpecker, 32; blue jay, 11; crow, 112; black-capped chickadee, 3; tufted titmouse, 53; white-breasted nuthatch, 11; brown creeper, 7; robin, 1; bluebird, 2; golden-crowned kinglet, 12; cedar waxwing, 6; starling, 306; English sparrow, 56; cardinal, 32; purple finch, 18; goldfinch, 8; towhee, 3; slate-colored junco, 321; tree sparrow, 47; field sparrow, 5; white-throated sparrow, 74; song sparrow, 14. TOTAL, 32 species; 1201 individuals.—M. F. MCLENIGAN, WM. YODER, ELEANOR PHILLIPS, LT. RICHARD MUTH, MARJORIE MUTH, ELMER MARLOR, ANNE SCHNEYDER, HILDA WEBER, JOS. and ISABELLA EITLINGER, MR. and MRS. R. CARROLL, BILL NIXON, CHAS. HEINLE, CHAS. SAALFRANK, EMILY PATMAN, EDWARD and CHAS. MORRISON, LOUIS KEICHEL, JOHN T. MCNEILL, JR.

PITTSBURGH, PA. (city suburbs, Frick Park, McKeesport, Thornburg, Elfinwild, Forest Hills, Fox Chapel, Blackridge, Bellvue; deciduous wooded hillsides 50%, uncultivated fields 40%, lawns 10%).—Dec. 31. Cloudy; temp. 28° to 35°; wind sw, 8-10 m.p.h.; ground covered with 8-12-in. snow. Twelve observers in 8 parties. Total hours, 21 (on foot); total miles, 24 (on foot). Cooper's hawk, 2; sparrow hawk, 1; bob-white, 26; pheasant, 22; screech owl, 1; hairy woodpecker, 4; downy woodpecker, 20; black-capped chickadee, 38; tufted titmouse, 48; white-breasted nuthatch, 14; brown creeper, 3; Carolina wren, 4; robin, 1; golden-crowned kinglet, 10; English sparrow, 1; starling, 34; English sparrow, 150; cardinal, 68; goldfinch, 37; towhee, 4; slate-colored junco, 62; tree sparrow, 34; song sparrow, 30. TOTAL, 22 species; approximately 614 individuals.—HELEN BLAIR, MARGARET MARTIN, J. E. WRIGHT, ALLAN KIRK, HOWARD COGAN, L. F. SAVAGE, MRS. J. BRUCE PATERSON, H. S. CRASS, ELIZABETH MCCLELLAND, MARY LOU BROWN, RUSSELL BUEHL, C. B. SHOEMAKER (Audubon Society of Western Pennsylvania).

READING, PA. (radius of 7½ miles from city, including open farmland 30%, town suburbs 10%, young pine plantation 10%, deciduous woodland 40%, artificial lakes and streams 10%).—Dec. 24; 8 A.M. to 4:30 P.M. Cloudy; wind NW, 5-12 m.p.h.; light; temp. 32° at start, 35° at return; by car and afoot; ground covered with 2-in. snow; Lake Ontelaunee frozen, Moselem dam open. Eleven observers in 5 groups. Great blue heron, 1; mallard 200 (est.); black duck 800 (est.); baldpate, 10; pintail, 30; green-winged teal, 4; Am. merganser, 2; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 6; red-shouldered hawk, 2; golden eagle, 1 (Poole, Sigman); bald eagle, 2; marsh hawk, 2; duck hawk, 1; sparrow hawk, 6; bob-white, 10; ring-necked pheasant, 119; rock dove, 3; mourning dove, 28;

screech owl, 2; kingfisher, 2; flicker, 2; hairy woodpecker, 2; downy woodpecker, 28; horned lark, 60; blue jay, 22; crow, 167; fish crow, 1; chickadee, 30; tufted titmouse, 25; white-breasted nuthatch, 8; brown creeper, 6; winter wren, 4; mockingbird, 1; hermit thrush, 2; bluebird, 12; golden-crowned kinglet, 9; ruby-crowned kinglet, 1; starling, 649; English sparrow, 333; meadowlark, 10; purple grackle, 1; cardinal, 37; purple finch, 11; goldfinch, 73; junco, 552; tree sparrow, 510; field sparrow, 2; white-throated sparrow, 41; swamp sparrow, 8; song sparrow, 54. TOTAL, 52 species; approximately 3896 individuals.—JORDAN BAUSHER, DAVID BERKHEIMER, JOHN and MARTIN ESHELMAN, EDWARD HILL, ELWOOD MANNING, PAUL MARTIN, HAROLD MORRIS, EARL POOLE, ARTHUR SIGMAN, SAMUEL WISHNIESKI (members Baird Ornithological Club).

SCRANTON, PA. (area same as in former years, radius of 7½ miles from airport at Schultsville; open fields, woodlands, ravines, streams, lake shores, and Susquehanna River at Ransom).—Dec. 24; 8:30 A.M. to 4 P.M. Partly cloudy; wind w, 2-4 m.p.h.; streams, ponds, and river frozen; 6-8-in. snow; temp. 28° to 35°. Total miles, 50 (40 by car, about 10 afoot); total hours, 7½. Red-shouldered hawk, 1; sparrow hawk, 3; pheasant, 7; downy woodpecker, 4; horned lark, 50; blue jay, 4; crow, 32; chickadee, 157; white-breasted nuthatch, 3; brown creeper, 2; robin, 2; bluebird, 2; starling, 400; English sparrow, 130; goldfinch, 13; junco, 173; tree sparrow, 650; song sparrow, 16; snow bunting, 205. TOTAL, 19 species; 1854 individuals. (Dec. 31: mallard, 2; black duck, 65; Am. merganser, 12; ruffed grouse, 3; herring gull, 1; kingfisher, 1; hairy woodpecker, 1; cardinal, 10.)—GEORGE and ROBERT LOWE, JOE BUYDOS, M. J. KELLY, FRANCIS JENKINS, MR. and MRS. FRANCIS H. COFFIN, DICK LUIG, PETER ESKRA, DAVID WHARTON, BILLY SMILES, PAUL WINDALL, ED WILLIAMS (Scranton Bird Club).

SEWICKLEY, PA. (Reardon Run, Allegheny Co.; Raccoon Creek, Beaver Co.).—Dec. 24; 10:30 A.M. to 5 P.M. Overcast; 12-in. snow on ground; no wind; temp. 26° at start, 32° at return. Total miles, 12. Observers together. Red-tailed hawk, 1; mourning dove, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 12; crow, 1; black-capped chickadee, 18; tufted titmouse, 28; white-breasted nuthatch, 2; brown creeper, 1; Carolina wren, 8; bluebird, 1; golden-crowned kinglet, 3; starling, 35; English sparrow, 120; cardinal, 38; goldfinch, 20; junco, 46; tree sparrow, 77; song sparrow, 22. TOTAL, 20 species; 438 individuals.—MAX HENRICI, FRANK A. HEGNER.

STATE COLLEGE, PA. (town and campus, including feeding stations 27%, college farms and woodlots eastward 3 miles 23%, pond and small stream east of town 16%, open farmland along road from Lemont to Shingletown 11%, forest land bordering mountain to Musser Gap 23%).—Dec. 25; 9 A.M. to 6 P.M. Partly cloudy, considerable sunshine; temp. 15° to 20°; wind NW, 13-18 m.p.h.; ground covered with 10-15-in. snow; swifter streams still open. Five observers, 2 together, others separate, one watching feeding station. Total hours, 18 (mostly on foot); total miles, 25 (19 on foot, 6 by

car). Great blue heron, 1; mallard, 13; green-winged teal, 3; ruffed grouse, 3; ring-necked pheasant, 3; killdeer, 2; long-eared owl, 2; belted kingfisher, 1; downy woodpecker, 5; crow, 22; black-capped chickadee, 20; tufted titmouse, 2; white-breasted nuthatch, 8; winter wren, 1; robin, 2; golden-crowned kinglet, 5; starling, 90; English sparrow, 173; cardinal, 10; purple finch, 3; goldfinch, 18; junco, 34; tree sparrow, 29; fox sparrow, 6. TOTAL, 24 species; 462 individuals.—Mrs. ARTHUR W. COWELL, JANE COWELL, Mrs. HARRY HAMMOND, ROY D. ANTHONY, WILLIAM S. CLARKE, JR.

WEST CHESTER, PA. (7½-mile radius; open farmland 50%, town suburbs 5%, deciduous woods 20%, mixed evergreen plantings 5%).—Dec. 26; dawn to dusk. Cloudy to fair; temp. 30° to 24°; wind nw, 6-8 m.p.h.; humidity high, penetrating cold; ground covered with 2-in. crusty snow; most ponds and streams frozen. Twenty observers in 11 parties. Total hours afoot, 40; total miles afoot, 51; cars used only to travel from place to place. Great blue heron, 1; mallard, 4; Am. merganser, 3; vulture, 3; sharp-shinned hawk, 1; Cooper's hawk, 3; red-tailed hawk, 4; red-shouldered hawk, 3; marsh hawk, 3; sparrow hawk, 11; bob-white, 5; pheasant, 7; killdeer, 5; herring gull, 4; ring-billed gull, 2; rock dove, 80; mourning dove, 9; short-eared owl, 1; kingfisher, 7; flicker, 7; red-bellied woodpecker, 1; hairy woodpecker, 9; downy woodpecker, 55; jay, 38; crow, 665; Carolina chickadee, 23; titmouse, 100; white-breasted nuthatch, 56; creeper, 4; winter wren, 1; Carolina wren, 1; robin, 1; bluebird, 35; golden-crowned kinglet, 15; starling, 535; myrtle warbler, 1; English sparrow, 183; meadowlark, 17; red-wing, 1; rusty blackbird, 2; cardinal, 44; goldfinch, 100; towhee, 1; junco, 473; tree sparrow, 166; field sparrow, 1; white-throated sparrow, 50; swamp sparrow, 2; song sparrow, 49. TOTAL, 49 species; 2792 individuals. (Seen in area, Dec. 24: waxwing, 14).—LOUIS LLOYD, ARTHUR SIGMAN, Mrs. LAURA ABBOTT, ALICE SWAYNE, Mrs. ISAAC ROBERTS, Mrs. JOHN LEITCH, MARY SHARPLESS, Mrs. ALFRED HALLOWELL, Mr. and Mrs. JOSEPH COPE, ANNA and FLORENCE JAMES, BERTHA TOMLINSON, GEORGE FORSYTHE, MARGARET GOODWIN, MARY THOMAS, VIOLET FINDLAY, MARPLE LEWIS, PAUL MARTIN, ROBERT GORDON, ALBERT CONWAY (West Chester Bird Club and friends).

WYNOCOTE, PA. (to Chestnut Hill, Ambler, Trevoise, Churchville, and Cheltenham; deciduous woods 45%, brushy fields 30%, town suburbs 15%, open farmland 7%, mixed deciduous and evergreen woods 3%).—Dec. 31. Cloudy, fog making poor visibility; temp. 28° to 38°; calm; ground covered with 1-in. ice and snow; ponds frozen. Twenty-one observers in 8 parties. Total hours, 38 (35 on foot, 3 in car); total miles, 79 (42 on foot, 37 by car). Great blue heron, 1; mallard, 33; black duck, 4; sharp-shinned hawk, 1; Cooper's hawk, 5; red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 3; ring-necked pheasant, 31; mourning dove, 55; screech owl, 2; belted kingfisher, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 28; blue jay, 38; crow, 64;

tufted titmouse, 76; white-breasted nuthatch, 18; brown creeper, 10; winter wren, 2; Carolina wren, 2; robin, 4; golden-crowned kinglet, 7; cedar waxwing, 1; starling, 163; English sparrow, 165; purple grackle, 1; cardinal, 81; pine siskin, 1; goldfinch, 38; towhee, 2; junco, 348; tree sparrow, 183; field sparrow, 24; white-throated sparrow, 107; song sparrow, 28. TOTAL, 38 species; 1535 individuals.—Mr. and Mrs. J. BARTSCH, H. BELL, JR., R. BERRY, J. and SARAH CRAIG, J. DORNAN, R. FRANZ, Mr. and Mrs. E. S. GRISCOM, J. V. HARE, ESTHER HEACOCK, R. LORD, F. MEARS, Mrs. T. P. PAISLEY, E. H. PARRY, W. REYNOLDS, L. G. STERNER, C. SOOY, R. TEETERS, T. WEINTRAUB (Wyncote Bird Club).

YORK CO., PA. (fields and countryside from York adjoining the Lincoln Highway to Wrightsville, 12 miles east, from Wrightsville north along the river 2 miles; town suburbs 5%, open farmland 25%, deciduous woodland and fields along river 70%).—Dec. 30. Cloudy, later snowing; temp. 25° to 30°; wind SE shifting to NE, 1-7 m.p.h.; ground covered with 3-in. snow; river mostly frozen. Three observers together. Total hours, 9½ (8½ on foot, 1 by car); total miles, 29 (7 by foot, 22 by car). Black duck, 27; Am. golden-eye, 2; Am. merganser, 4; red-breasted merganser, 2; sparrow hawk, 1; rock dove, 4; flicker, 4; hairy woodpecker, 1; downy woodpecker, 6; blue jay, 1; crow, 898; black-capped chickadee, 5; tufted titmouse, 14; white-breasted nuthatch, 2; brown creeper, 4; winter wren, 4; Carolina wren, 13; bluebird, 6; cedar waxwing, 16; starling, 183; English sparrow, 32; grackle, 3; cardinal, 14; slate-colored junco, 10; tree sparrow, 37; white-crowned sparrow, 1; white-throated sparrow, 24 (observed at 6 ft. at a feeding station by all 3 observers); song sparrow, 15. TOTAL, 28 species; 1333 individuals.—ANNA C. REINECKER, VIOLA V. DIETZ, EDWIN T. MOUL (York County Bird Club).

MIDDLETOWN, DEL. (north end of town to Noxontown Pond and Delaware River near Taylor's Bridge; open farmland 50%, deciduous farm woodlots 15%, tide-water marshes 30%, sand beach, 5%).—Dec. 29; 8:30 A.M. to 5 P.M. Cloudy; temp. 20° to 28°; wind N by E, 3 m.p.h.; ground partly covered with ice from sleet storm; all fresh water frozen except small part of Noxontown Pond. Four observers together. Total hours, 8½ (8 on foot, ½ in car); total miles, 20 (6 on foot, 14 in car). Great blue heron, 3; mallard, 46; black duck, 126; pintail, 6; canvas-back, 112; greater (?) scaup, 12; Am. merganser, 12; turkey vulture, 22; red-tailed hawk, 5; red-shouldered hawk, 1; bald eagle, 2; marsh hawk, 3; sparrow hawk, 3; coot, 2; herring gull, 32; ring-billed gull, 3; mourning dove, 2; belted kingfisher, 2; flicker, 4; red-bellied woodpecker, 2; downy woodpecker, 5; horned lark, 44; blue jay, 5; crow, 38; Carolina chickadee, 5; tufted titmouse, 6; winter wren, 1; Carolina wren, 4; mockingbird, 9; bluebird, 17; cedar waxwing, 11; starling, 72; English sparrow, 14; meadowlark, 17; red-wing, 9; purple grackle, 2; cardinal, 17; goldfinch, 3; towhee, 1; Ipswich sparrow, 1; savannah sparrow, 9; slate-colored junco, 70; tree sparrow, 23; field sparrow, 1; white-throated sparrow, 32; swamp sparrow, 2; song sparrow, 11. TOTAL, 47 species; 829 individuals.—

ETHEL BRADY, PURNELL LYNCH MCWHORTER 3RD, STUVESANT BONSAI PELL, WALDEN PELL 2ND.

ACCOKEEK, MD. (east side of Potomac just below mouth of Piscataway Creek; area of about 2 square miles, comprising river front, cultivated river flat, wooded swamp, cattail marsh, and border of adjacent upland, covered intensively on foot).—Dec. 29. Heavily overcast; no wind; temp. 27° to 32°; crunchy sleet covering ground and vegetation; marshes and river edges frozen. Observers in pairs. Total hours, 17; total party miles, 8 (approx.). Great blue heron, 1; black duck, 16; Am. merganser, 400; turkey vulture, 20; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk (?), 1; bald eagle, 3; herring gull, 50; ring-billed gull, 50; mourning dove, 100; flicker, 20; red-bellied woodpecker, 15; red-headed woodpecker, 30; yellow-bellied sapsucker, 4; hairy woodpecker, 3; downy woodpecker, 35; blue jay, 30; crow, 30; Carolina chickadee, 40; tufted titmouse, 30; brown creeper, 3; Carolina wren, 20; mockingbird, 4; robin, 35; hermit thrush, 7; bluebird, 25; golden-crowned kinglet, 15; ruby-crowned kinglet, 1; cedar waxwing, 200; myrtle warbler, 2; English sparrow, 60; meadowlark, 80; red-wing, 50; rusty blackbird, 30; cardinal, 50; purple finch, 5; goldfinch, 60; towhee, 2; slate-colored junco, 225; tree sparrow, 75; field sparrow, 40; white-throated sparrow, 125; swamp sparrow, 7; song sparrow, 85. TOTAL, 45 species; about 2077 individuals.—A. A. BAKER, EDWIN T. MCKNIGHT, THOMAS B. NOLAN, W. W. RUBEY.

BOWIE, MD. (entire area of the Patuxent Research Refuge of the Fish and Wildlife Service, 2656 acres; bottomland and swamp 31%, upland oak 28%, fields 18%, pine 14%, terrace [beech-white oak] 6%, lakes 3%).—Dec. 29. Overcast; temp. 22° to 27°; wind NW to SE via NE, 2-5 m.p.h.; ground covered with 1/2-in. sleet, trees and shrubs coated with ice; lakes frozen, river and some brooks open. Observers in 7 parties. Total hours, 55; total miles, 55 (afoot). Am. merganser, 6; turkey vulture, 17; black vulture, 1; Cooper's hawk, 1; red-tailed hawk, 5; red-shouldered hawk, 2; marsh hawk, 3; pigeon hawk, 1 (see through 8x glasses at 75 yds., both perched and in flight—I.N.G., A.L.N., R.E.S.); sparrow hawk, 1; bob-white, 33; mourning dove, 157; barred owl, 3; flicker, 53; pileated woodpecker, 4; red-bellied woodpecker, 38; yellow-bellied sapsucker, 11; hairy woodpecker, 13; downy woodpecker, 69; horned lark, 1; blue jay, 123; crow, 200±; Carolina chickadee, 82; tufted titmouse, 135; brown creeper, 13; winter wren, 19; Carolina wren, 10; mockingbird, 8; robin, 25; hermit thrush, 34; bluebird, 33; golden-crowned kinglet, 46; ruby-crowned kinglet, 4; cedar waxwing, 83; starling, 18; myrtle warbler, 55; English sparrow, 12; meadowlark, 16; red-wing, 1; grackle, 2; cardinal, 61; purple finch, 23; goldfinch, 239; red-eyed towhee, 26; slate-colored junco, 1283; tree sparrow, 228; field sparrow, 57; white-throated sparrow, 233; fox sparrow, 4; swamp sparrow, 16; song sparrow, 91. TOTAL, 50 species; 3599± individuals. (Seen in area earlier in week: white-breasted nuthatch; Am. pipit).—JOHN W. ALDRICH, JOHN W. BRAINERD, JAMES B. COPE, IRA N. GABRIELSON, PAUL ILLICK, FREDERICK C.

LINCOLN, A. C. MARTIN, ARNOLD L. NELSON, CHANDLER S. ROBBINS, MR. and MRS. ROBERT E. STEWART.

PORT TOBACCO (CHARLES CO.), MD. (areas about Port Tobacco Village, Brentland Wharf on Port Tobacco River, and Potomac River east of Nanjemoy Creek; low swampy woodland 45%, mixed upland pine and oak woods, chiefly oak, 10%, submarginal farmland and field borders 35%, marsh and water 10%).—Dec. 26; 8 A.M. to 6 P.M. Cloudy and windy in A.M., clear and breezy in P.M.; temp. 38° at start, 31° at finish; creeks and rivers open, marshes partly frozen. Four observers working in pairs. Total party hours afield, 9; total party miles, 30 (20 afoot, 10 by car). Common loon, 1; horned grebe, 2; great blue heron, 1; whistling swan, 3; ring-necked duck, 1; canvas-back, 1600+; lesser scaup, 225; buffle-head, 6; ruddy duck, 800+; hooded merganser, 1; Am. merganser, 2; turkey vulture, 176; black vulture, 38; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 1; bald eagle, 3; marsh hawk, 3; bob-white, 23; coot, 550; killdeer, 17; herring gull, 5; ring-billed gull, 500; kingfisher, 1; flicker, 18; red-bellied woodpecker, 20; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 25; phoebe, 1; crow, 100+; Carolina chickadee, 20; tufted titmouse, 30; winter wren, 5; Carolina wren, 15; mockingbird, 3; robin, 175; hermit thrush, 5; bluebird, 25; golden-crowned kinglet, 2; cedar waxwing, 165; starling, 3; myrtle warbler, 8; English sparrow, 24; meadowlark, 9; red-wing, 1000+; rusty blackbird, 103; grackle, 3; cardinal, 20; purple finch, 1; goldfinch, 100; savannah sparrow, 2; junco, 250; tree sparrow, 75; field sparrow, 2; white-throated sparrow, 200+; fox sparrow, 1; swamp sparrow, 4; song sparrow, 50. TOTAL, 59 species; 6430+ individuals.—IRA N. GABRIELSON, F. C. LINCOLN, A. L. NELSON, F. M. UHLER (U. S. Fish and Wildlife Service, Washington, D. C.).

WASHINGTON, D. C., REGION (east side of Potomac River from Lock 7 on the Chesapeake & Ohio Canal, south to Oxen Run, Md.; the lower Anacostia River Valley and Rock Creek Valley in the District of Columbia; west side of Potomac River from Arlington Cemetery south, including Roaches Run Wildlife Sanctuary, to Dyke, Va., and west to the Alexandria Reservoir).—Dec. 31; 8 A.M. to 5 P.M. Intermittent light rain in A.M., steady rain in P.M.; ground covered with 1/2-2-in. snow and ice, marshes frozen, river with small patches of open water; temp. 32° to 38°. Thirty-seven observers in 4 parties. Total miles, 57 (40 by car, 17 on foot). Horned grebe, 2; great blue heron, 6; black-crowned night heron, 2; lesser Canada goose, 1; snow goose, 1; mallard, 18; black duck, 177; pintail, 326; baldpate, 1; green-winged teal, 2; golden-eye, 6; Am. merganser, 29; turkey vulture, 5; Cooper's hawk, 1; red-tailed hawk, 8; red-shouldered hawk, 3; bald eagle, 2; marsh hawk, 1; sparrow hawk, 6; bob-white, 10; coot, 4; killdeer, 4; Wilson's snipe, 1; herring gull, 110; ring-billed gull, 465; mourning dove, 6; barred owl, 3; short-eared owl, 1; belted kingfisher, 3; flicker, 32; red-bellied woodpecker, 14; hairy woodpecker, 8; downy woodpecker, 42; blue jay, 67; crow, 63; Carolina chickadee, 69;

tufted titmouse, 80 white-breasted nuthatch, 32; brown creeper, 7; winter wren, 8; Carolina wren, 32; long-billed marsh wren, 1; mockingbird, 28; robin, 6; hermit thrush, 6; bluebird, 59; golden-crowned kinglet, 5; ruby-crowned kinglet, 2; pipit, 19; cedar waxwing, 2; migrant shrike, 4; starling, 538; myrtle warbler, 10; English sparrow, 140; meadowlark, 25; red-wing, 45; cardinal, 142; purple finch, 11; goldfinch, 54; towhee, 6; slate-colored junco, 370; tree sparrow, 75; field sparrow, 11; white-throated sparrow, 141; fox sparrow, 1; swamp sparrow, 8; song sparrow, 102. TOTAL, 67 species; approximately 3469 individuals. The 2 geese were observed at a distance of 50 ft., together with a flock of ducks at the Roaches Run Wildfowl Sanctuary. The lesser Canada goose was only slightly larger than the snow goose in body size; its bill was noticeably shorter than that of either snow goose or pintail; comparisons of specimens of these 3 species together with the Hutchins's goose were made later in the U.S. National Museum (J.W.A.).—J. W. ALDRICH, R. T. PETERSON, G. M. SIGEL, LT. F. DEP. ROTHERMEL, RICHARD TOUSEY, MRS. R. TOUSEY, HAZEL BOWER, FERN BELL, ARTHUR FAST, JUANITA MCCOMB, ELIZABETH IVIE, DALE RUDART, EPIE QUICKSALT, MRS. F. T. GRIFFIN, ROBERT BARTL, FRANK SARTWELL, DAN EMORY, JERRY MERSEAU, RUSSELL SIEDER, W. D. CHICK, RAY BEASLEY, R. E. LAWRENCE, NORMAN STEVENS, VELMA STEVENS, JIMMY PETERS, C. L. CAMP, D. E. MCHENRY, LT. COL. J. B. SMITH, CHRISTINE GAUNE, NAPIER SHELTON, HUDSON MOORE, CHAS. LYMAN, H. B. STABLER, BEN COLBY, CRAIG CARPENTER, RICHARD FIGGINS, H. B. CURRY (Audubon Society of the District of Columbia).

WASHINGTON, D. C. (region around Massachusetts Ave. from Nebraska Ave. to just beyond the B & O freight line in Maryland; pine woods 30%, open deciduous woods 45%, town suburbs 10%, pastureland 15%.—Dec. 26; 8:30 A.M. to 5 P.M. Overcast, with heavy sleet storm after 1 P.M.; wind W, 1-7 m.p.h.; temp. 23° to 28°. Total hours, 8½; total miles, 8 (on foot). Cooper's hawk, 1; barred owl, 1; flicker, 1; red-bellied woodpecker, 1; hairy woodpecker, 4; downy woodpecker, 9; blue jay, 2; crow, 16; Carolina chickadee, 16; tufted titmouse, 17; white-breasted nuthatch, 11; brown creeper, 2; mockingbird, 1; hermit thrush, 1; bluebird, 9; golden-crowned kinglet, 1; starling, 4; myrtle warbler, 4; English sparrow, 17; cardinal, 48; goldfinch, 18; towhee, 1; junco, 105; tree sparrow, 1; white-throated sparrow, 35; song sparrow, 15. TOTAL, 26 species; 341 individuals.—ROBERT GREGORY.

BACK BAY, VA. (Back Bay Fish and Wildlife Refuge and Knott's Island, N. C.; Pungo, Va., to Williams Landing, along route 625, route 615 to causeway to Knott's Island, north end of island, and back to Sands Bridge; ocean beach to Little Island Coast Guard Station, inner road to Back Bay refuge headquarters; south end of refuge along inner road, and wash flats; back on beach to Little Island Coast Guard Station, and inner road to Sands Bridge; marsh 40%, fresh-water ponds 14%, wash flats 13%, fields 13%, beach 8%, woodland 7%, swampy bottomlands 5%).—Dec. 31; dawn to

dusk. Cloudy, with misting rain late; temp. 36° to 42°; wind SE to E, 8-17 m.p.h.; no snow; water on wash flats. Nine observers (1 additional in P.M.) in 2 parties. Total hours, 15½ (11 on foot, 4½ in car and truck); total miles, 45 (11 on foot, 34 by truck and car). Common loon, 8; Holboell's grebe, 1 (just beyond surf—Mrs. A.C.R., L.L.M.); horned grebe, 1; pied-billed grebe, 6; double-crested cormorant, 2; great blue heron, 3; Am. bittern, 2; whistling swan, 92; Canada goose, 1500 (est.); greater snow goose, 10,000 (est.); blue goose, 4 (with snows—Mrs. A.C.R., T.E.R.); black duck, 5; baldpate, 18; pintail, 87; wood duck, 1; redhead, 18; canvas-back, 10; Am. golden-eye, 1; white-winged scoter, 31; surf scoter, 2; ruddy duck, 2; red-breasted merganser, 1; turkey vulture, 8; Cooper's hawk, 1; red-shouldered hawk, 2; bald eagle, 3; marsh hawk, 11; sparrow hawk, 6; king rail, 1; clapper rail, 3; coot, 600 (est.); killdeer, 3; Wilson's snipe, 2; sanderling, 46; great black-backed gull, 5; herring gull, 108; ring-billed gull, 181; black skimmer, 3; (dovekie, 2—both dead, fresh, slightly oiled; one found Dec. 28, the other Dec. 31 on wash flats nearly a mile from ocean); mourning dove, 4; great horned owl, 1; short-eared owl, 1; kingfisher, 5; flicker, 5; pileated woodpecker, 1; red-bellied woodpecker, 7; yellow-bellied sapsucker, 1; downy woodpecker, 2; horned lark (prairie?), 12; crow, 97; fish crow, 3; Carolina chickadee, 1; tufted titmouse, 16; white-breasted nuthatch, 1; brown creeper, 1; Carolina wren, 10; short-billed marsh wren, 10; mockingbird, 19; catbird, 2; bluebird, 22; golden-crowned kinglet, 17; ruby-crowned kinglet, 2; Am. pipit, 39; shrike (loggerhead?), 1 (very rare here, seen closely by Mrs. A.C.R.); starling, 32; myrtle warbler, 7; pine warbler, 2; English sparrow, 37; meadowlark, 112; red-wing, 1893 (partly est.); boat-tailed grackle, 14; cardinal, 8; towhee, 2; Ipswich sparrow, 1 (E.L.W., seen at close range in dunes); savannah sparrow, 36; sharp-tailed sparrow, 2; slate-colored junco, 2; field sparrow, 6; white-throated sparrow, 25; swamp sparrow, 24; song sparrow, 60. (Count of ducks unusually small due to inability to get out in Back Bay on boat.) TOTAL, 80 species; about 15,387 individuals.—LOCKE L. MACKENZIE, MRS. ST. J. R. MARSHALL, JACK E. PERKINS, VIRGINIA B. PICKELL, MR. AND MRS. A. C. REED, DR. AND MRS. T. E. REYNOLDS, GORDON E. REYNOLDS, EARL L. WHITE.

BLACKSBURG (MONTGOMERY CO.), VA. (V.P.I. campus and farm along Strouble's Creek, 1½ miles; Tom's Creek, 1 mile; New River above McCoy, 3 miles and return same way; Brush Mountain, 1 mile; area covered on foot: mixed pine and oak woods 12%, mature white oak woods 12%, stream and pasture 30%, riverbank, 26%).—Dec. 26; 7:30 A.M. to 5:30 P.M. Overcast, except for short period in P.M.; brisk wind W slackening at midday; temp. 33° to 28°; ground bare, except for drifts formed on Dec. 12; water mostly open. Two observers together, except for short intervals. Total hours, 10 (9 on foot, 1 by car shifting to favorite points); total miles, 41 (12 on foot, 29 by car). Mallard, 13; black duck, 25; baldpate, 2; pintail, 7; green-winged teal, 5; blue-winged teal, 1; shoveler, 2; lesser scaup, 68; golden-eye, 10; buffle-head,

47; hooded merganser, 5; turkey vulture, 1; Cooper's hawk, 4; red-tailed hawk, 3; sparrow hawk, 5; ruffed grouse, 1; bob-white, 38 (4 coveys); ring-necked pheasant, 1; coot, 1; killdeer, 2; Wilson's snipe, 8; domestic pigeon (feral), 25; mourning dove, 2; great horned owl, 1; screech owl, 1; kingfisher, 4; flicker, 3; pileated woodpecker, 1; red-bellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 8; prairie horned lark, 10; blue jay, 10; crow, 150+ (part est.); Carolina chickadee, 19; tufted titmouse, 24; white-breasted nuthatch, 10; brown creeper, 1; Carolina wren, 2; mockingbird, 2; robin, 1; bluebird, 23; migrant shrike, 2; starling, 200+ (part est.); English sparrow, 75; meadowlark, 12; grackle, 12; cardinal, 21; goldfinch, 13; junco, 14; tree sparrow, 196; field sparrow, 12; white-crowned sparrow, 15; white-throated sparrow, 1; song sparrow, 38. TOTAL, 55 species; about 1287 individuals.—C. O. HANDLEY, JOHN HANDLEY.

CAPE HENRY, VA. (Seashore State Park, northern Virginia Beach, Lynnhaven Bay, Little Creek; mixed pine, hardwood, and cypress swamp 70%, ocean beach 10%, salt-water bay 10%, fields and hedgerow 10%).—Dec. 24; 10:30 A.M. to 5:30 P.M. Heavy fog until noon, overcast and hazy thereafter; no wind; temp. 45° to 47°; no ice or snow. Six observers mostly together. Total miles on foot, 6. Common loon, 3; horned grebe, 2; great blue heron, 1; mallard, 1; black duck, 30; Am. golden-eye, 25; buffle-head, 4; Am. scoter, 1; red-breasted merganser, 8; red-shouldered hawk, 3; bald eagle, 2; sparrow hawk, 1; bob-white, 7; sanderling, 35; herring gull, 500 (est.); ring-billed gull, 5; Bonaparte's gull, 20; common tern, 4 (observed at 40 yds. with 8x glasses—J.T.T.); black skimmer, 12 (at Little Creek, where they have stayed all December); belted kingfisher, 1; flicker, 4; pileated woodpecker, 3; red-bellied woodpecker, 4; hairy woodpecker, 2; downy woodpecker, 3; blue jay, 1; crow, 25; fish crow, 10; Carolina chickadee, 6; tufted titmouse, 3; winter wren, 3; Carolina wren, 4; mockingbird, 5; hermit thrush, 2; bluebird, 1; golden-crowned kinglet, 5; cedar waxwing, 14; starling, 50; myrtle warbler, 50; English sparrow, 5; cardinal, 10; goldfinch, 20; towhee, 3; junco, 50; white-throated sparrow, 60; fox sparrow, 6; song sparrow, 10. TOTAL 47 species; about 1024 individuals.—J. C. HOWELL, EUNICE PALMER, R. S. PALMER, J. T. TANNER, N. B. TANNER, RICHARD TROMP.

CHARLOTTESVILLE, VA. (south fork Rivanna River from Rt. 29 to R.R. bridge, Rio Swamp, McIntyre Park, C&O right-of-way in city; river banks 45%, deciduous woods 45%, pine woods 5%, swamp 5%).—Dec. 27; dawn to midafternoon. Cloudy at start, changing to sleet storm 10:30 A.M., which continued rest of day; no wind; temp. 18° to 26°. Five observers, 2 parties on foot: 8 hours, 8 miles. Mourning dove, 40; screech owl, 1; flicker, 1; red-bellied woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 7; blue jay, 16; crow, 81; chickadee, 10; tufted titmouse, 4; white-breasted nuthatch, 2; brown creeper, 1; Carolina wren, 12; mockingbird, 4; hermit thrush, 2; bluebird, 14; golden-crowned kinglet, 2; ruby-crowned kinglet, 1; starling, 2; English sparrow,

30; red-wing, 50; cardinal, 23; purple finch, 16; goldfinch, 27; junco, 121; tree sparrow, 20; field sparrow, 30; white-throated sparrow, 5; fox sparrow, 20; song sparrow, 35. TOTAL, 31 species; 580 individuals.—MR. and MRS. WARREN CLOUD, JAMES IRVINE, GORDON LEWIS, JOHN GREY.

EMORY (WASHINGTON CO.), VA. (fields and woods north of town in A.M.; P.M. trip included areas southeast of Emory: Middle and South Forks of Holston River, slopes of Whitetop Mt., area around Damascus; about 1700-4000 ft.; deciduous woods 25%, evergreen woods (pine, hemlock, red cedar) 15%, suburban districts 10%, open fields 50%).—Dec. 30; 7:05 to 11:40 A.M.; 1:20 to 6:15 P.M. Cloudy and foggy all morning, partly cloudy in P.M. with shower at close; patches of snow on protected slopes (low temperatures and one heavy snow have characterized the month); wind SE to SW, 0-5 m.p.h.; temp. 34° to 47°. Observers usually together (R.P. and R.B.S. present in P.M. only). Total hours, 8 (7 on foot, 1 by car); total miles, 28 (8 on foot, 20 by car). Great blue heron, 1; black duck, 2; Am. merganser (♀), 3; turkey vulture, 15; black vulture, 7; sparrow hawk, 3; mourning dove, 67; great horned owl, 1; belted kingfisher, 2; flicker, 1; pileated woodpecker, 1; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 5; phoebe, 2; horned lark, 16; blue jay, 35; crow, 45; Carolina chickadee, 10; tufted titmouse, 19; white-breasted nuthatch, 10; Carolina wren, 6; mockingbird, 5; bluebird, 19; golden-crowned kinglet, 3; cedar waxwing, 15; starling, 50; myrtle warbler, 2; English sparrow, 80; meadowlark, 25; cardinal, 22; goldfinch, 50; towhee, 1; junco, 35; tree sparrow, 5; field sparrow, 20; white-crowned sparrow, 10; white-throated sparrow, 7; song sparrow, 13. TOTAL, 40 species; about 619 individuals. (Seen within preceding week: red-tailed hawk, killdeer, screech owl, purple finch.) Inclement weather partly accounted for our failure to find brown creeper, winter wren, hermit thrush, etc.—LT. ERNEST P. EDWARDS, ROBERT PAASCH, HENRY M. STEVENSON, ROSA BELLE STEVENSON.

LEXINGTON, VA. (practically same area as in former years: center of town to point 7 miles north; cedar woods 35%, farmland 20%, scrub 15%, oak woods 10%, town edge 10%, Big Spring Pond 10%).—Dec. 26; 8:30 A.M. to 5:30 P.M., hour out for lunch. Cloudy in A.M., clear in P.M.; temp. 42° to 38°; wind N in A.M., 20 m.p.h., in P.M., 5 m.p.h.; spots of old snow; water mostly open. Four observers together all day, 1 extra in A.M., 2 in P.M. Total hours, 8 (1 in car, 7 on foot); total miles, 33 (27 in car, 6 on foot). Horned grebe, 1 (picked up, freshly killed); pied-billed grebe, 1; mallard, 12; black duck, 11; green-winged teal, 2; turkey vulture, 36; black vulture, 63; sharp-shinned hawk, 1; sparrow hawk, 3; Wilson's snipe, 3; bob-white, 17; rock dove, 24; mourning dove, 18; kingfisher, 1; flicker, 6; pileated woodpecker, 1; red-bellied woodpecker, 2; downy woodpecker, 1; yellow-bellied sapsucker, 2; prairie horned lark, 1 (heard flying over); blue jay, 1; crow, 70; black-capped chickadee, 2 (seen and heard at close range; occurs regularly in winter —J.J.M.); Carolina chickadee, 10; tufted titmouse,

15; white-breasted nuthatch, 1; winter wren, 1; Carolina wren, 3; mockingbird, 4; bluebird, 33; shrike, 1; starling, 278; myrtle warbler, 20; English sparrow, 76; meadowlark, 3; cardinal, 47; goldfinch, 46; junco, 98; tree sparrow, 53; field sparrow, 10; white-throated sparrow, 49; song sparrow, 3. TOTAL, 42 species; 1030 individuals.—J. J. MURRAY, ROBERT P. CARROLL, BOBBY PAXTON, JIMMY MURRAY, GORDON ECHOLS (morning), ALICE CARROLL (afternoon), and JANE MURRAY (afternoon).

LYNCHBURG, VA. (Timber Lake, Tomahawk Swamp, and Graves' Mill; Tomahawk Creek and College Lake omitted, as former participants are in service; deciduous woods 38%, fields and pastures 62%).—Dec. 29; 8:20 A.M. to 12:30 P.M., 2:20 to 5:30 P.M. Overcast, snow flurries in A.M., ice pellets and freezing drizzle in P.M.; wind E, 1-7 m.p.h.; temp. 33° to 31°; light crust of ice and snow on ground, water open. One party in A.M., 2 parties for 1 hour in P.M., 1 party for rest of time. Total hours, 8½ (8 on foot, 20 minutes by car); total miles, 15 (9 on foot, 6 by car). Hooded merganser, 2; turkey vulture, 5; black vulture, 14; bob-white, 7; mourning dove, 32; kingfisher, 1; flicker, 13; pileated woodpecker, 1; red-bellied woodpecker, 2; yellow-bellied sapsucker, 4; hairy woodpecker, 1; downy woodpecker, 11; prairie horned lark, 13; blue jay, 3; crow, 28; chickadee, 20; tufted titmouse, 14; white-breasted nuthatch, 3; brown creeper, 1; winter wren, 1; Carolina wren, 9; mockingbird, 2; robin, 5; hermit thrush, 3; bluebird, 3; starling, 8; myrtle warbler, 5; English sparrow, 60 (est.); cardinal, 21; purple finch, 4; goldfinch, 14; junco, 287 (partly est.); tree sparrow, 7; field sparrow, 13; white-throated sparrow, 29; song sparrow, 7. TOTAL, 36 species; about 653 individuals.—Mrs. C. L. BURGESS, JANE FREER, RUSKIN S. FREER, LT. WM. MCINTOSH, JAMES SPRUNT, Mr. and Mrs. J. W. WILTSHIRE, JR. (Lynchburg Chapter, Virginia Society of Ornithology).

RICHMOND, VA. (north and west parts of Richmond including Bryan and Byrd parks and James River opposite Windsor Farms, city dock, Curles Neck Farm; open farmland 30%, pine woods 2½%, deciduous woodlands 20%, city suburbs 17½%, open grassy fields 5%, open water 17½%, tidal fresh-water marshes 7½%).—Dec. 29; dawn to dusk. Overcast, with snowfall after 1 P.M., changing to sleet about 4 P.M.; wind NW veering to NE, 8-12 m.p.h.; temp. 30° to 32°; ground bare; water open. Three observers in 2 parties in A.M., 7 in 1 party in P.M. Total hours, 10 (on foot); total miles, 9 (on foot). Horned grebe, 2; Canada goose, 408; mallard, 10; black duck, 27; baldpate, 37; wood duck, 4; redhead, 4; ring-necked duck, 88; ruddy duck, 2; Am. merganser, 17; turkey vulture, 1; Cooper's hawk, 1; red-tailed hawk, 2; marsh hawk, 1; sparrow hawk, 1; coot, 194; killdeer, 16; Wilson's snipe, 14; herring gull, 30; ring-billed gull, 121; mourning dove, 109; kingfisher, 2; flicker, 3; red-bellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 13; phoebe, 1 (seen distinctly by all 7 observers); prairie horned lark, 120; blue jay, 6; crow, 162; Carolina chickadee, 7; tufted

titmouse, 4; white-breasted nuthatch, 5; brown creeper, 3; Carolina wren, 10; mockingbird, 7; bluebird, 4; golden-crowned kinglet, 7; starling, 62; English sparrow, 81; meadowlark, 25; red-wing, 34; rusty blackbird, 60 (carefully identified by all observers); cardinal, 51; purple finch, 5; goldfinch, 16; towhee, 2; savannah sparrow, 8; junco, 156; field sparrow, 3; white-throated sparrow, 129; song sparrow, 13. TOTAL, 52 species; about 2091 individuals. (Seen in area Dec. 26; great blue heron, 1; ruby-crowned kinglet, 1; myrtle warbler, 8.)—J. R. SYDNOR, Mrs. C. W. DARDEN, Mr. and Mrs. C. E. SMITH, MURIEL WHITE, J. B. LOUGHRAN, F. R. SCOTT.

CHAPEL HILL, N. C. (University and Eastwood lakes, Odum Farm, Morgan's Creek, Strowd's Low-ground, campus; water and mixed shore 40%, upland deciduous woods 15%, pine forest and sedge fields 5%, pasture and open farmland 25%, lowland thickets, rushes, and lake marsh 10%, town 5%).—Dec. 25; dawn to 4 P.M. Overcast to clear; temp. 42° to 60°; no wind. Seven observers in 4 parties. Total hours, 24; total miles, 16 (on foot). Pied-billed grebe, 1; great blue heron, 1; mallard, 10; black duck, 35; ring-necked duck, 9; lesser scaup, 1; buffle-head, 15; hooded merganser, 1; Am. merganser, 6; turkey vulture, 5; black vulture, 8; sharp-shinned hawk, 1; red-tailed hawk, 3; marsh hawk, 1; sparrow hawk, 3; bob-white, 4; killdeer, 18; woodcock, 2; herring gull, 1 (found dead in water by E. O., red blood indicated bird possibly not dead more than 12 hours); mourning dove, 160; barred owl, 2 (heard); flicker, 30; red-bellied woodpecker, 1; red-headed woodpecker, 10; yellow-bellied sapsucker, 8; hairy woodpecker, 4; downy woodpecker, 18; phoebe, 6; blue jay, 34; crow, 38; Carolina chickadee, 43; tufted titmouse, 36; white-breasted nuthatch, 16; brown-headed nuthatch, 8; brown creeper, 2; winter wren, 8; Carolina wren, 21; mockingbird, 5; brown thrasher, 1; robin, 14; hermit thrush, 37; bluebird, 136; golden-crowned kinglet, 38; ruby-crowned kinglet, 4; cedar waxwing, 16; migrant shrike, 2; starling, 3; myrtle warbler, 45; pine warbler, 6; English sparrow, 6; meadowlark, 15; rusty blackbird, 1; cardinal, 31; purple finch, 18; goldfinch, 40; towhee, 15; savannah sparrow, 18; slate-colored junco, 170; white-throated sparrow, 180; fox sparrow, 35; swamp sparrow, 53; song sparrow, 160. TOTAL, 62 species; 1619 individuals. Very fresh turkey tracks seen by E. O.—EUGENE and THOMAS ODUM, Mrs. H. W. WALTERS, PHILLIPS RUSSELL, Mrs. O. F. JENSEN, DAVID SHARPE, FREEMONT SHEPHERD (Chapel Hill Bird Club).

CHARLOTTE (MECKLENBURG CO.), N. C. (same area as 1943 and earlier counts, plus a city garden [Winghaven]; open woodland 50%, fields 20%, balance in roadside hedges and a small mill pond).—Dec. 31; 8:15 A.M. to 5:10 P.M. Medium fog to light mist throughout day; little or no wind; temp. 40° to 45°; ground soaked. Five observers together in A.M., 3 observing independently in P.M. Total hours, 13 1/6 (12½ on foot, 40 minutes in car); total miles, 23 (9 on foot). Mourning dove, 11; screech owl, 1; red-headed woodpecker, 1; hairy

woodpecker, 1; downy woodpecker, 1; phoebe, 1; blue jay, 2; crow, 4; chickadee, 8; tufted titmouse, 6; brown-headed nuthatch, 3; Carolina wren, 4; mockingbird, 2; catbird, 1; brown thrasher, 2; hermit thrush, 2; bluebird, 8; golden-crowned kinglet, 1; ruby-crowned kinglet, 2; starling, 1; myrtle warbler, 1; pine warbler, 7; English sparrow, 3; meadowlark, 3; purple finch, 3; cardinal, 21; goldfinch, 45; red-eyed towhee, 3; Bachman's sparrow, 2; slate-colored junco, 75; field sparrow, 4; white-throated sparrow, 42; song sparrow, 5. TOTAL, 33 species; 276 individuals.—Mrs. EDWIN O. CLARKSON, Mrs. CHARLES DEF. LUCAS, B. R. CHAMBERLAIN, B. R. CHAMBERLAIN, JR., JIM LAYTON, BUD MOON.

GREENSBORO, N. C. (section 15 miles across, including Pinecroft, Starmount, the Richardson estate, Greensboro country park, and Lakes Philadelphia, Buffalo, Scales, Sharpe, White Oak, and Brandt; deciduous and mixed woodland 30%, open fields 20%, cattail marsh and thicket 15%, small fresh-water lakes 25%, city yards and campuses 10%).—Dec. 30; 6:15 A.M. to 6 P.M. Overcast, light fog most of day, trees and shrubs covered with ice; temp. 35°. Twenty-one observers, mostly in 8 parties. Total hours, 54; total miles, 46 (on foot). Great blue heron, 1; mallard, 2; black duck, 2; ring-necked duck, 30; red-headed duck, 2; lesser scaup, 3; Am. golden-eye, 2; buffle-head, 9; Am. merganser, 7; turkey vulture, 1; Cooper's hawk, 2; red-shouldered hawk, 2; marsh hawk, 1; bob-white, 68; killdeer, 2; mourning dove, 29; screech owl, 1; belted kingfisher, 6; flicker, 15; pileated woodpecker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 5; yellow-bellied sapsucker, 11; hairy woodpecker, 6; downy woodpecker, 28; phoebe, 4; horned lark, 40; blue jay, 83; crow, 108; chickadee, 117; tufted titmouse, 35; white-breasted nuthatch, 18; brown creeper, 16; winter wren, 3; Carolina wren, 44; mockingbird, 73; robin, 1200 (est.); hermit thrush, 8; bluebird, 74; golden-crowned kinglet, 103; ruby-crowned kinglet, 45; cedar waxwing, 88; shrike, 6; starling 5000 (est.); myrtle warbler, 4; pine warbler, 24; English sparrow, 381; meadowlark, 104; red-wing, 10; cardinal, 220; goldfinch, 297; towhee, 54; lark sparrow, 3 (Edith Settan, Etta Schiffman) [no further details—Ed.]; junco, 1261; field sparrow, 190; white-throated sparrow, 413; swamp sparrow, 18; song sparrow, 303. TOTAL, 58 species; about 10,585 individuals.—Mrs. W. V. BLACKBURN, JOHN CARR, INEZ COLDWELL, BILLY CRAFT, Mrs. FLOYD CRAFT, LARRY CRAWFORD, Mrs. ROBERT DOUGLAS, MISS SIDNEY HOLMES, SARAH LESLEY, HUGH L. MEDFORD, JR., MR. and Mrs. GEO. PERRETT, ETTA SCHIFFMAN, Mrs. EDITH SETTAN, Mrs. ROBERT SETTAN, ARCHIE D. SHAFTESBURY, GEO. A. SMITH, MR. and Mrs. CHAS. M. SWART, Mrs. MARGARET Y. WALL, TOM ZAPP (members and guests, Piedmont Bird Club).

GREENSBORO, N. C. (and vicinity; AAF ORD grounds, Bessemer, along North Buffalo Creek to White Oak, Buffalo and Philadelphia lakes, Kirkwood, Irving, Latham, Lake Lane and Van Ludlam parks, Greensboro College campus, Sunset Hulls; pine and hardwood forests, swamps, thickets,

fields, uplands, farmlands, streams, ponds, lakes).—Dec. 24; 6 A.M. to 9:30 P.M. Heavily overcast and damp in A.M., clearing partially in late P.M.; wind light, SE; temp. 26° to 47°; ground frozen; no snow; water thinly frozen in part. Total miles, 16 (on foot). Great blue heron, 1; mallard (probably feral), 26; turkey vulture, 1; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 4; bob-white, 67 (3 coveys); pheasant, 1; ruffed grouse, 1; killdeer, 3; woodcock, 2; rock dove, 12; mourning dove, 39; barn owl, 2; screech owl, 4; great horned owl, 1; barred owl, 3; long-eared owl, 1; belted kingfisher, 1; flicker, 12; red-headed woodpecker, 1; red-bellied woodpecker, 3; red-cockaded woodpecker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 8; downy woodpecker, 32; phoebe, 2; prairie horned lark, 9; blue jay, 12; crow, 10; black-capped chickadee, 17; Carolina chickadee, 75+; tufted titmouse, 58; white-breasted nuthatch, 18; red-breasted nuthatch, 3; brown-headed nuthatch, 2; brown creeper, 5; house wren, 1; winter wren, 4; Carolina wren, 34; Bewick's wren, 4; mockingbird, 3; catbird, 2; brown thrasher, 1; robin, 34; hermit thrush, 2; bluebird, 247+; golden-crowned kinglet, 122+; ruby-crowned kinglet, 7; Am. pipit, 2; cedar waxwing, 36; loggerhead shrike, 2; starling, 550+; black and white warbler, 1; orange-crowned warbler, 1; pine warbler, 8; myrtle warbler, 34; yellow-throat, 1; English sparrow, 117+; meadowlark, 23; red-wing, 3; rusty blackbird, 1; cowbird, 9; cardinal, 28; purple finch, 1; pine siskin, 9 (flock); goldfinch, 83; red-eyed towhee, 19; vesper sparrow, 1; slate-colored junco, 430+; tree sparrow, 37; chipping sparrow, 2; field sparrow, 78; pine-woods sparrow, 6; white-crowned sparrow, 1; white-throated sparrow, 310+; fox sparrow, 4; swamp sparrow, 2; song sparrow, 187+. TOTAL, 82 species; about 2893 individuals. (Seen Dec. 28: bronzed grackle, 3; Dec. 29: chat, 1.)—JOHN H. MAYER.

HIGHLANDS, N. C. (unpaved roads and trails leading to Highlands Biological Laboratory, Highlands Manor Field, Lake Ravenel, and Harris Lake; altitude 3800-4000 ft.; deciduous forests 45%; abandoned field 10%, Lakes 20%, pine forests 20%, village 5%).—Dec. 24. Overcast, foggy; temp. 53° to 55°; wind SW-W; Lake Ravenel frozen, Harris Lake 1/4 frozen; patches of snow on ground. One observer 4 1/2 hours, 2 observers 2 1/2 hours. Total hours, 7 (on foot); total miles, 4 (on foot). Blue jay, 5; tufted titmouse, 3; Carolina wren, 1; rusty blackbird, 6; cardinal, 3; red-eyed towhee, 1; Carolina junco, 7. TOTAL, 7 species; 26 individuals.—THELMA HOWELL, HENRY WRIGHT.

MATTAMUSKEET NATIONAL WILDLIFE REFUGE, NEW HOLLAND, N. C. (same area as in 1940 and subsequent counts; Mattamuskeet Refuge and adjacent woods and fields, including public road across the lake; marsh 30%, open water 40%, fields and thickets 20%, pine and cypress woods 10%).—Dec. 28; 8 A.M. to 5:30 P.M. Clear to light overcast; ground bare; wind NW to NE, approximately 5 m.p.h.; temp. 40° to 53°. Six observers mostly together. Total hours afield, 11; total miles

23 (19 by car, 4 on foot). Pied-billed grebe, 3; great blue heron, 11; Am. egret, 2; whistling swan, 1595; Canada goose, 11,476 (partly est.); snow goose, 1; mallard, 33; black duck, 185; baldpate, 12; pintail, 2805 (partly est.); scaup, 2; ruddy duck, 1; red-breasted merganser, 3; turkey vulture, 7; black vulture, 12; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 1; red-shouldered hawk, 3; rough-legged hawk, 1; bald eagle, 15; marsh hawk, 8; sparrow hawk, 6; herring gull, 4; ring-billed gull, 2; mourning dove, 27; flicker, 10; red-bellied woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 2; phoebe, 4; tree swallow, 14; blue jay, 1; crow, 59; fish crow, 9; Carolina chickadee, 6; tufted titmouse, 3; Carolina wren, 7; mockingbird, 7; catbird, 6; brown thrasher, 4; robin, 41; hermit thrush, 4; bluebird, 4; ruby-crowned kinglet, 2; pipit, 1; cedar waxwing, 7; starling, 92; myrtle warbler, 365; Maryland yellow-throat, 2; English sparrow, 12; meadowlark, 66; red-wing, 1485 (partly est.); purple grackle, 26; cardinal, 8; goldfinch, 9; red-eyed towhee, 9; slate-colored junco, 2; tree sparrow, 2; field sparrow, 4; white-throated sparrow, 32; fox sparrow, 3; swamp sparrow, 3; song sparrow, 11. TOTAL, 65 species; about 18,545 individuals. (Seen in area Dec. 25; killdeer, 6; Dec. 29: bob-white, 12; Dec. 30: Am. bittern, 1; pileated woodpecker, 1.)—R. L. WOLFF, D. J. ROSE, JR., TOM ZAPH, LARRY CRAWFORD, S. H. LAMB, W. G. CAHOON.

RALEIGH, N. C. (practically same area as previous counts; lakes and small ponds 40%, mixed pine and deciduous woodland 15%, deciduous woodland 25%, pine woodland 10%, open fields 10%).—Dec. 28: 8:30 A.M. to 5:30 P.M. Fair to slightly cloudy in late P.M.; calm in A.M., wind sw varying from 1-7 m.p.h. in P.M.; temp. 36° to 60°; ground bare, water open. Fifteen observers in 6 parties. Total hours, 25 (22 on foot, 3 by car); total miles, 35 (27 on foot, 8 by car). Double-crested cormorant, 2; great blue heron, 1; whistling swan, 9; mallard, 183; black duck, 92; gadwall, 4; pintail, 20; green-winged teal, 1; shoveller, 2; redhead, 12; ring-necked duck, 200; canvas-back, 18; lesser scaup, 5; Am. golden-eye, 3; buffle-head, 3; old-squaw, 1; ruddy duck, 9; hooded merganser, 1; Am. merganser, 5; red-breasted merganser, 4; turkey vulture, 25; black vulture, 3; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; red-shouldered hawk, 1; sparrow hawk, 6; bob-white, 12; killdeer, 12; mourning dove, 32; kingfisher, 4; flicker, 16; red-bellied woodpecker, 1; red-headed woodpecker, 10; yellow-bellied sapsucker, 3; hairy woodpecker, 1; downy woodpecker, 1; phoebe, 1; blue jay, 31; crow, 44; chickadee, 52; titmouse, 19; white-breasted nuthatch, 3; brown-headed nuthatch, 7; brown creeper, 2; winter wren, 1; Carolina wren, 13; mockingbird, 27; robin, 6; hermit thrush, 1; bluebird, 43; golden-crowned kinglet, 6; ruby-crowned kinglet, 9; Am. pipit, 10; cedar waxwing, 32; shrike, 4; starling, 105; myrtle warbler, 16; pine warbler, 35; English sparrow, 33; meadowlark, 54; cowbird, 120; cardinal, 21; purple finch, 11; goldfinch, 131; towhee, 18; savannah sparrow, 14; vesper sparrow, 3; junco, 251; field sparrow,

115; white-throated sparrow, 66; fox sparrow, 1; song sparrow, 68. TOTAL, 73 species; 2080 individuals.—D. L. WRAY, C. S. BRIMLEY, MRS. C. H. GREEN, E. W. WINKLER, F. B. MEACHAM, C. H. BOSTIAN, ROBERT OVERING, G. M. GARREN, ERNEST MITCHELL, JR., JOHN COFFEY, JR., ROBERT COOPER, OSCAR WILLIAMS, PERRIN GOWER, CALVIN KOONCE, DICKIE TIPPETT, HARRY T. DAVIS.

WASHINGTON, N. C. (Pamlico River shore and north along borders of fields, swamps, and hardwood stands bordering Runyon's Creek; Pioneer's Bluff woods and west over route of previous count; river shore 25%, field borders and hedge rows 60%, open fields 5%, mature deciduous and pine woods mixed 10%).—Dec. 26: 8 A.M.-1 P.M., 2:30-5:30 P.M. Light drizzling rain; no wind until 11:50 A.M.; cold front moved in, wind NNE, 19-24 m.p.h., hard rain; temp. 57° to 38°. Two observers in A.M., 3 in P.M. Total hours, 8; total miles, 8 (on foot). Great blue heron, 1; Cooper's hawk, 2; killdeer, 8; herring gull, 25 (est.); ring-billed gull, 75 (est.); mourning dove, 1; belted kingfisher, 2; flicker, 2; red-bellied woodpecker, 5; hairy woodpecker, 2; blue jay, 3; crow, 39; Carolina chickadee, 6; tufted titmouse, 7; brown creeper, 1; Carolina wren, 5; mockingbird, 9; brown thrasher, 1; robin, 1; hermit thrush, 1; bluebird, 4; ruby-crowned kinglet, 6; loggerhead shrike, 1; starling, 9; myrtle warbler, 61; pine warbler, 11; English sparrow, 17; meadowlark, 8; rusty blackbird, 1500 (est.); cardinal, 13; goldfinch, 3; towhee, 8; junco, 20; chipping sparrow, 3; field sparrow, 1; white-throated sparrow, 200 (est.); fox sparrow, 4; song sparrow, 4. TOTAL, 38 species; about 2069 individuals. (Dec. 27: whistling swan, 35, with flock of 125 coot.)—MRS. E. M. BROWN, VICTOR SHELBURNE, JR., MARY SHELBURNE CRAWFORD.

WINDOM, N. C. (farms of L. H. Hutchins, Mack Silver, Mrs. C. P. Gibson, and adjacent territory; open farmland 50%, white pine woodland 2%, pastures 18%, deciduous forests 30%).—Dec. 30: 9 A.M. to dusk. Cloudy; temp. 40° to 45°; calm; trees covered with sleet in A.M. Three observers in 1 party. Total hours, 8 (on foot); total miles, 8 (on foot). Scaup, 1; Cooper's hawk, 1; sharp-shinned hawk, 1; bob-white, 14; blue jay, 10; crow, 53; titmouse, 10; Carolina wren, 3; hermit thrush, 10; bluebird, 5; golden-crowned kinglet, 1; starling, 9; English sparrow, 64; cardinal, 23; goldfinch, 24; red-eyed towhee, 9; junco, 45; field sparrow, 50; white-throated sparrow, 1; song sparrow, 20. TOTAL, 20 species; 354 individuals.—JAMES HUTCHINS, ROOSEVELT AND PAUL HUGHES.

WINSTON SALEM, N. C. (woods 60%, open fields 40%).—Dec. 31. Heavy fog and mist; temp. 40° to 45°. Total hours, 8; total miles, 12 (on foot). Mallard, 2; Cooper's hawk, 1; red-tailed hawk, 1; bob-white, 11; mourning dove, 11; screech owl, 1; flicker, 8; red-bellied woodpecker, 1; yellow-breasted sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 5; phoebe, 1; blue jay, 2; crow, 15; Carolina chickadee, 15; tufted titmouse, 10; white-breasted nuthatch, 2; brown creeper, 1; Carolina wren, 5; mockingbird, 4; robin, 1; hermit thrush, 7; bluebird, 17; golden-crowned kinglet, 47; ruby-

crowned kinglet, 17; cedar waxwing, 5; shrike, 1; starling, 15; myrtle warbler, 6; pine warbler, 1; English sparrow, 15; meadowlark, 1; cardinal, 31; goldfinch, 7; towhee, 2; field sparrow, 110; junco, 174; white-throated sparrow, 40; fox sparrow, 1; song sparrow, 47. TOTAL, 40 species; 644 individuals.—JAMES L. STEPHENSON.

CHARLESTON, S. C. (Bull's Island, adjacent waters and marshes, mainland opposite, back to Wando River, as in preceding years; farmland 20%, fresh-water ponds and wooded swamps 25%, woods, mixed and pine 25%, salt-water creeks, marshes, and flats 25%, dunes and ocean front 5%).—Dec. 27; dawn to dusk (plus one 9 P.M. observation). Cloudy, occasional light rain in P.M.; temp. 40° to 48°; wind NNE to NNW, 6-12 m.p.h.; woods somewhat damp. Twelve observers in 4 parties (4 additional observers in P.M.). Total hours, 24 (17 on foot, 5 by car, 2 on boat); total miles, 83 (16 on foot, 61 by car, 6 by boat). Holboell's (?) grebe, 2; horned grebe, 35; pied-billed grebe, 3; brown pelican, 1; gannet, 5; double-crested cormorant, 158; great blue heron, 21; Am. egret, 1; snowy egret, 1; Louisiana heron, 5; little blue heron, 5; black-crowned night heron, 2; Am. bittern, 1; Canada goose, 10 (9 P.M.—R.C.M.); mallard, 158; black duck, 191; gadwall, 50; baldpate, 77; pintail, 319; green-winged teal, 170; blue-winged teal, 34; shoveller, 16; wood duck, 6; ring-necked duck, 174; scaup, 103; golden-eye, 6; buffle-head, 58; white-winged scoter, 2; ruddy duck, 218; hooded merganser, 8; red-breasted merganser, 86; turkey vulture, 30; black vulture, 13; sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 4; red-shouldered hawk, 8; bald eagle, 16; marsh hawk, 11; osprey, 1; pigeon hawk, 1; sparrow hawk, 6; turkey, 3; clapper rail, 4; Florida gallinule, 11; coot, 780+; oyster-catcher, 83; semipalmated plover, 6; killdeer, 5; black-bellied plover, 88; ruddy turnstone, 5; woodcock, 2; Wilson's snipe, 3; Hudsonian curlew, 6; spotted sandpiper, 1; willet, 19; greater yellow-legs, 6; lesser yellow-legs, 3; pectoral sandpiper, 4 (very late—Peters, Murphy, *et al.*); least sandpiper, 2; red-backed sandpiper, 11; dowitcher, 33; semipalmated sandpiper, 8; marbled godwit, 17; sandpiper, 17; herring gull, 27; ring-billed gull, 37; laughing gull, 1; Bonaparte's gull, 1; Caspian tern, 1; mourning dove, 59; belted kingfisher, 5; flicker, 24; pileated woodpecker, 15; red-bellied woodpecker, 22; red-headed woodpecker, 1; yellow-bellied sapsucker, 6; hairy woodpecker, 1; downy woodpecker, 10; red-cockaded woodpecker, 2; phoebe, 8; blue jay, 13; crow, 202; fish crow, 170; Carolina chickadee, 59; tufted titmouse, 24; red-breasted nuthatch, 1 (R.C.M.); brown-headed nuthatch, 7; brown creeper, 17; house wren, 4; winter wren, 8; Carolina wren, 29; short-billed marsh wren, 4; mockingbird, 14; catbird, 1; brown thrasher, 14; robin, 33; hermit thrush, 8; bluebird, 16; golden-crowned kinglet, 18; ruby-crowned kinglet, 67; pipit, 14; cedar waxwing, 19; loggerhead shrike, 6; starling, 61; orange-crowned warbler, 1; myrtle warbler, 173; pine warbler, 21; yellow-throat, 8; English sparrow, 1; meadowlark, 86; red-wing, 562; boat-tailed grackle, 3; Florida (?) grackle, 20;

cardinal, 69; goldfinch, 36; red-eyed towhee, 42; white-eyed towhee, 2; savannah sparrow, 25; sharp-tailed sparrow, 1; seaside sparrow, 1; vesper sparrow, 7; junco, 66; chipping sparrow, 137+; field sparrow, 46+; white-throated sparrow, 171; fox sparrow, 10; swamp sparrow, 14; song sparrow, 74. TOTAL, 129 species; 5744+ individuals. (Seen in area by R.C.M. Dec. 24-25: Holboell's grebe, 1; Am. scoter, 40; western sandpiper, 5; blue-gray gnatcatcher, 1.)—WILLIAM P. BALDWIN, MRS. L. S. BARRINGTON, E. B. CHAMBERLAIN, PETER GETHING, WARING HILLS, CORP. E. O. MELLINGER, AMOS MURPHY, DR. and MRS. R. C. MURPHY, PFC. ROBERT NEWMAN, H. S. PETERS, GEORGE B. REYNARD, ALEXANDER SPRUNT, JR., ALEXANDER SPRUNT III, R. H. STONE, E. A. WILLIAMS, ISABELLE STONEY, PATSY PETERS, JOSEPH MAYBANK, H. M. SASS.

COLUMBIA, S. C. (3 miles east of center of Columbia, Richland Co., to West Columbia, Horse Shoe Lake, Hendrix's pond, Fisher's pond, and Shull's pond in Lexington Co., 7 miles west of Columbia; urban territory 1%, deciduous woods 30%, pine woods 39%, lake shores 10%, broom field 12%, cattail marsh 3%, cultivated fields 5%).—Dec. 29; 9 A.M. to dusk. Cloudy; mist in late P.M.; calm to wind W, 1-7 m.p.h.; temp. 40° to 39°. Nine observers, at times, separating into 2 parties; 2 observers with the group only 1 hour. Total miles, 30 (20 by auto, 10 on foot). Pied-billed grebe, 10; great blue heron, 1; blue-winged teal, 1; ring-necked duck, 50; turkey vulture, 9; black vulture, 5; sharp-shinned hawk, 1; bob-white, 1; coot, 21; killdeer, 5; mourning dove, 1; rock dove, 8; flicker, 26; yellow-bellied sapsucker, 4; hairy woodpecker, 2; downy woodpecker, 5; phoebe, 4; blue jay, 27; crow, 26; Carolina chickadee, 7; tufted titmouse, 8; brown-headed nuthatch, 15; brown creeper, 4; Carolina wren, 17; mockingbird, 19; brown thrasher, 3; robin, 199; hermit thrush, 9; bluebird, 60; golden-crowned kinglet, 53; ruby-crowned kinglet, 11; cedar waxwing, 76; shrike, 1; starling, 460; pine warbler, 14; yellow palm warbler, 2; yellow-throat, 1; English sparrow, 110; meadowlark, 1; cardinal, 23; red-eyed towhee, 2; slate-colored junco, 74; chipping sparrow, 5; field sparrow, 12; white-throated sparrow, 34; song sparrow, 14; vesper sparrow, 1. TOTAL, 47 species; 1442 individuals.—MRS. G. E. CHARLES, MRS. B. S. MEES, MRS. P. B. HENDRIX, MRS. EDITH VAN DUZER, GRACE MEES, ESSIE MAE CHARLES, LOUISE BRISTOW, SPENCER MEES, GILBERT BRISTOW.

SANTEE NATIONAL WILDLIFE REFUGE, S. C. (Jack's Creek, Dingle, and Potato Creek ponds of refuge, points along Santee reservoir shore from "Scott's Lake" to "Wyboo," farmland from Summerton to reservoir shore—all Clarendon Co.; ponds 30%, reservoir edge 15%, cultivated farmland 25%, abandoned fields 20%, second-growth mixed woods 10%).—Dec. 29. Overcast; temp. 45° to 60°; wind N, 1-7 m.p.h. Six observers in 1 party. Total hours, 16 (12 on foot, 4 in automobile); total miles, 73 (9 on foot, 64 in automobile). Common loon, 1; pied-billed grebe, 36; great blue heron, 35; Am. bittern, 2; whistling swan (imm.), 2 (one examined by all at 150 yds., other by R. S.); mallard, 139;

black duck, 48; gadwall, 58; baldpate, 341; pintail, 76; green-winged teal, 8; wood duck, 2; ring-necked duck, 827; canvas-back, 3; lesser scaup, 1; buffle-head, 2; ruddy duck, 12; hooded merganser, 2; turkey vulture, 12; black vulture, 41; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 4; bald eagle, 1; marsh hawk, 10; sparrow hawk, 6; bob-white, 29; coot, 4100 (est.); killdeer, 8; woodcock, 1; Wilson's snipe, 3; ring-billed gull, 7; mourning dove, 121; barred owl, 1; belted kingfisher, 2; flicker, 19; red-bellied woodpecker, 4; yellow-bellied sapsucker, 3; hairy woodpecker, 1; downy woodpecker, 3; phoebe, 10; blue jay, 40; crow, 46; Carolina chickadee, 4; tufted titmouse, 1; brown creeper, 8; winter wren, 1; Carolina wren, 11; short-billed marsh wren, 1; mockingbird, 8; catbird, 1; brown thrasher, 11; robin, 3; hermit thrush, 1; bluebird, 14; golden-crowned kinglet, 15; ruby-crowned kinglet, 16; pipit, 69; shrike, 16; blue-headed vireo, 1; myrtle warbler, 27; pine warbler, 5; western palm warbler, 2; yellow-throat, 6; English sparrow, 38; meadowlark, 196; red-wing, 285; cardinal, 26; goldfinch, 2; red-eyed towhee, 53; savannah sparrow, 47; vesper sparrow, 353; junco, 56; chipping sparrow, 288; field sparrow, 194; white-throated sparrow, 53; fox sparrow, 9; swamp sparrow, 53; song sparrow, 54. TOTAL, 79 species; about 7998 individuals.—W. P. BALDWIN, E. B. CHAMBERLAIN, PETER GETTING, HAROLD PETERS, PATSY PETERS, RUDOLPH STONE.

SPARTANBURG, S. C. (center of town to points 7 miles south; Duncan Park, Fairforest meadow, Ezell woods, Zimmerman Lake; open farmland 25%, town suburbs 20%, mixed woodland 40%, fresh-water ponds and marshes 15%).—Jan. 1. Heavy overcast, clearing in P.M.; temp. 54° to 37°; wind NW, 15-30 m.p.h. Four observers together. Total hours, 7 (6½ on foot, ½ in car, from point to point); total miles 23 (7 on foot, 16 by car). Black duck, 2; turkey vulture, 5; black vulture, 6; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 5; killdeer, 150; mourning dove, 48; kingfisher, 2; flicker, 2; red-bellied woodpecker, 3; red-headed woodpecker, 1; downy woodpecker, 2; yellow-bellied sapsucker, 2; phoebe, 2; blue jay, 50; crow, 11; Carolina chickadee, 25; Carolina wren, 7; mockingbird, 8; brown thrasher, 1; robin, 28; hermit thrush, 3; bluebird, 3; golden-crowned kinglet, 18; ruby-crowned kinglet, 45; Am. pipit, 125; cedar waxwing, 3; starling, 2000 (est.); myrtle warbler, 2; English sparrow, 30; meadowlark, 20; red-wing, 20; cowbird, 60; cardinal, 18; purple finch, 1; goldfinch, 8; towhee, 15; junco, 35; field sparrow, 20; white-throated sparrow, 30; song sparrow, 3. TOTAL, 42 species; approximately 2822 individuals.—GABRIEL CANNON, LOUISA CARLISLE, RUTH CRICK, MARGARET HAMMOND.

ATLANTA, GA. (South River, Oglethorpe University to Silver Lake, Emory University, Candler estate and lake, East Lake area, Piedmont Park and lake, Collier Woods, city suburbs; open farmland and pasture 40%, marsh and lake 15%, deciduous and pine woods mixed 40%, suburbs 5%).—Dec. 31; dawn to 1 P.M. Foggy with showers, P.M. partly cloudy and warmer; temp. 43° to 60°; wind 0-12

m.p.h. Fourteen observers in 6 parties; 3 as single observers and 3 groups. Total hours, 34; total miles, 38 (23 on foot, 15 by auto). Green-winged teal, 2; canvas-back, 5; scaup, 2; red-breasted merganser, 1; turkey vulture, 19; black vulture, 8; sharp-shinned hawk, 1; Cooper's hawk, 2; red-tailed hawk, 3; red-shouldered hawk, 5; sparrow hawk, 5; bob-white, 13; coot, 1; killdeer, 37; mourning dove, 17; screech owl, 1; barred owl, 1; belted kingfisher, 2; red-headed woodpecker, 6; flicker, 24; pileated woodpecker, 2; red-bellied woodpecker, 10; yellow-bellied sapsucker, 1; hairy woodpecker, 17; downy woodpecker, 25; phoebe, 6; horned lark, 3; blue jay, 120; crow, 55; Carolina chickadee, 118; tufted titmouse, 68; white-breasted nuthatch, 16; brown-headed nuthatch, 6; brown creeper, 9; winter wren, 1; Carolina wren, 48; mockingbird, 32; catbird, 4; brown thrasher, 9; robin, 20; hermit thrush, 11; bluebird, 111; golden-crowned kinglet, 45; ruby-crowned kinglet, 28; Am. pipit, 115; cedar waxwing, 5; loggerhead shrike, 6; starling, 7076 (part est.); white-eyed vireo, 1 (seen at 20 ft. with 6x glasses, white eye seen—T.F.D.); myrtle warbler, 5; pine warbler, 11; palm warbler, 1; English sparrow, 19; meadowlark, 28; red-wing, 171; grackle, 6260 (part est.); cowbird, 20; cardinal, 128; pine siskin, 8; goldfinch, 140; towhee, 85; junco (sp.), 175; chipping sparrow, 69; field sparrow, 274; white-throated sparrow, 185; swamp sparrow, 21; song sparrow, 180. TOTAL, 67 species and subspecies; about 15,903 individuals. (Seen in area Dec. 23: black duck, vesper sparrow, tree sparrow—studied at 15 ft. with 4x glasses, clear breast, single round spot, note differing from that of song sparrow—J. M.).—T. F. DAVIS, GLENN W. BELL, MRS. J. CONNOR OLIVER, HARRY GREENE, JOHN OUTLER, JR., RUSSELL and ROBERT ADAMS, JIMMY MAJOR, DICK GIBLIN, MRS. H. M. DANIEL, ED and TOM COLLUM, ROBERT HURST, RAY C. WERNER (Atlanta Bird Club).

AUGUSTA, GA. (Oliver General Hospital grounds and golf course; Phinizy Swamp; clay-pit area and fields in riverbottom; 8 miles along Savannah River levee).—Dec. 26; 7:30 A.M. to 6:30 P.M. Heavy fog in A.M., cloudy entire day; temp. 57° to 65°; wind W, 2-8 m.p.h. Four observers in 3 parties. Total hours, 24 (20 on foot, 4 by car); total miles, 48 (20 on foot, 28 by car). Great blue heron, 9; Canada goose, 1; pintail, 2; turkey vulture, 13; black vulture, 10; red-tailed hawk, 3; red-shouldered hawk, 4; marsh hawk, 4; sparrow hawk, 9; bob-white, 9; killdeer, 20; Wilson's snipe, 14; herring gull, 1; mourning dove, 32; kingfisher, 4; flicker, 35; red-bellied woodpecker, 9; red-headed woodpecker, 2; yellow-bellied sapsucker, 9; downy woodpecker, 9; red-cockaded woodpecker, 1; phoebe, 8; blue jay, 49; Am. crow, 35; Carolina chickadee, 21; tufted titmouse, 10; brown-headed nuthatch, 3; brown creeper, 3; winter wren, 11; Carolina wren, 46; mockingbird, 26; brown thrasher, 12; robin, 2; hermit thrush, 14; bluebird, 10; golden-crowned kinglet, 39; ruby-crowned kinglet, 19; Am. pipit, 45+; cedar waxwing, 43; shrike, 18; starling, 40+; blue-headed vireo, 1; myrtle warbler, 49; pine warbler, 1; palm warbler, 2; yellow-throat, 2;

English sparrow, 45; meadowlark, 113; cardinal, 42; goldfinch, 33; towhee, 21; savannah sparrow, 15; junco, 75; chipping sparrow, 8; field sparrow, 42; white-throated sparrow, 93+; fox sparrow, 3; swamp sparrow, 12; song sparrow, 163+. TOTAL, 59 species; approximately 1374 individuals.—BILL THOMAS, HARRIS CLAY, CAPT. LOUIS C. FINK, J. FRED DENTON.

DALTON, GA. (center of town to point 3 miles north; golf course; to point 3 miles east; Beechland Farm; and to point 2½ miles southwest; Hamilton pond and Longley Lake area; open fields and thickets 38%, lake areas 19%, woodlands 35%, town suburbs 8%).—Dec. 28. Heavy overcast; light showers in early P.M.; temp. 27° at start, 30° at noon, 31° at dusk; fairly strong N wind. Three observers together. Total hours, 7¼; total miles, 22 (5 on foot, 17 by car). Turkey vulture, 3; black vulture, 2; sharp-shinned hawk, 1; Cooper's hawk, 1; red-shouldered hawk (?), 2; marsh hawk, 1; killdeer, 10; mourning dove, 3; flicker, 2; red-bellied woodpecker, 2; downy woodpecker, 6; prairie horned lark, 11; blue jay, 21; crow, 15; Carolina chickadee, 38; tufted titmouse, 11; white-breasted nuthatch, 2; brown creeper, 2; Carolina wren, 8; mockingbird, 9; robin, 3; bluebird, 31; golden-crowned kinglet, 7; ruby-crowned kinglet, 3; loggerhead shrike, 3; starling, 5100; myrtle warbler, 4; English sparrow, 7; meadowlark, 21; red-wing, 253; rusty blackbird, 70; grackle, 700; cowbird, 77; cardinal, 16; goldfinch, 36; towhee, 12; slate-colored junco, 73; field sparrow, 91; white-throated sparrow, 23; swamp sparrow, 1; song sparrow, 5. TOTAL, 41 species; approximately 6686 individuals. Starlings, grackles, red-wings, rusty blackbirds, and cowbirds were estimated as they came to roost in a canebrake near the center of town).—WARREN SIMS, WARREN HERRON, BILLY MITCHELL.

MACON, GA. (15 miles of Ocmulgee River bottoms, 7 miles south of Macon).—Dec. 25; 8 A.M. to 7 P.M. Mild; foggy in A.M., sun shining in P.M.; no wind; temp. 66° at start, 63° at return. Pied-billed grebe, 2; great blue heron, 1; turkey vulture, 2; black vulture, 3; Cooper's hawk, 1; marsh hawk, 1; red-tailed hawk, 3; red-shouldered hawk, 1; sparrow hawk, 2; mourning dove, 45+; killdeer, 5; barred owl, 1; great horned owl, 2; kingfisher, 1; flicker, 38+; red-bellied woodpecker, 12; yellow-bellied sapsucker, 2; hairy woodpecker, 2; downy woodpecker, 7; pileated woodpecker, 3; phoebe, 4; prairie horned lark, 3; blue jay, 40+; crow, 4; Carolina chickadee, 4; tufted titmouse, 3; brown-headed nuthatch, 1; brown creeper, 3; winter wren, 9; Carolina wren, 9; mockingbird, 4; brown thrasher, 2; robin, 41; hermit thrush, 81+; bluebird, 19; golden-crowned kinglet, 1; ruby-crowned kinglet, 92+; Am. pipit, 24; cedar waxwing, 160+; loggerhead shrike, 3; mountain vireo, 2; myrtle warbler, 76+; pine warbler, 14; palm warbler, 7; yellow-throat, 3; bobolink, 1 (observed at 15 ft. in a 50-acre field; uttered pink-ing note when flushed); meadowlark, 20; red-wing, 300+; cardinal, 26; purple finch, 1; goldfinch, 48; towhee, 16; Carolina junco, 45+; savannah sparrow, 8; song sparrow,

80; white-throated sparrow, 100+; field sparrow, 75+; swamp sparrow, 215+; fox sparrow, 12. TOTAL, 59 species; about 1690 individuals.—BROOKE MEANLEY.

Piedmont National Wildlife Refuge, ROUND OAK, GA. (Tribble tract to Juliette, Five Points Lake via Round Oak and Wayside, Wayside to Bradley, Hungerford's Lake, Turner's Ponds to Round Oak; abandoned farmland 48%, meadow and pastureland 45%, small artificial lakes and ponds 3%, deciduous hardwoods 1%, pine woodlands 3%).—Dec. 31; 6 A.M. to 5 P.M. Overcast, with heavy fog until 10:30 A.M., partially cloudy in P.M.; strong NW wind, 25-28 m.p.h.; temp. 40° at start, 60° at return. Total hours, 11 (8 on foot, 3 by car); total miles, 80 (8 afoot, 72 by car). Lesser scaup, 1; hooded merganser, 2; turkey vulture, 59; black vulture, 50; sharp-shinned hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 1; marsh hawk, 4; sparrow hawk, 2; bob-white, 14 (1 covey); killdeer, 2; mourning dove, 58; belted kingfisher, 1; flicker, 10; pileated woodpecker, 1; red-bellied woodpecker, 9; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 9; red-cockaded woodpecker, 7; phoebe, 4; blue jay, 15; crow, 21; Carolina chickadee, 11; tufted titmouse, 5; brown-headed nuthatch, 5; brown creeper, 3; winter wren, 6; Bewick's wren, 5; Carolina wren, 9; mockingbird, 12; brown thrasher, 1; robin, 5; hermit thrush, 20; bluebird, 85; golden-crowned kinglet, 35; ruby-crowned kinglet, 10; cedar waxwing, 18; loggerhead shrike, 4; starling, 2; myrtle warbler, 10; pine warbler, 10; yellow-throat, 1; English sparrow, 101; meadowlark, 60; red-wing, 3; cowbird, 2; cardinal, 37; purple finch, 4; goldfinch, 8; towhee, 27; savannah sparrow, 15; Bachman's sparrow, 1; slate-colored junco, 50; chipping sparrow, 15; field sparrow, 60; white-throated sparrow, 73; fox sparrow, 5; swamp sparrow, 30; song sparrow, 52. TOTAL, 60 species; 1075 individuals. (Seen in area Dec. 24: pied-billed grebe, 1; pipit, 1; Dec. 27: screech owl, 1).—RAYMOND J. FLEETWOOD.

SHERWOOD AND BIRDSONG PLANTATIONS (GRADY CO.), GA. (within 1500 acres; 40% open fields and pastures, 60% pinelands, mixed hardwoods, swamps and pond).—Dec. 24; 7 A.M. to 7:30 P.M. Fog in A.M., clear with intermittent 5-10-mile ESE wind in P.M.; temp. 42° to 60°. On foot. Wood duck, 19; turkey vulture, 17; black vulture, 2; Cooper's hawk, 2; red-tailed hawk, 5; red-shouldered hawk, 4; sparrow hawk, 3; bob-white, 18 (1 covey); wild turkey, 4; killdeer, 5; mourning dove, 34; great horned owl, 4 (heard); barred owl, 4 (heard); belted kingfisher, 1; flicker, 12; pileated woodpecker, 8; red-bellied woodpecker, 14; red-headed woodpecker, 7; yellow-bellied sapsucker, 5; hairy woodpecker, 1; downy woodpecker, 7; red-cockaded woodpecker, 2; phoebe, 6; blue jay, 14; crow, 26; chickadee, 8; tufted titmouse, 12; white-breasted nuthatch, 5; brown-headed nuthatch, 7; brown creeper, 4; house wren, 2; Carolina wren, 13; mockingbird, 7; brown thrasher, 2; robin, 166; hermit thrush, 13; bluebird, 20; blue-gray gnatcatcher, 1; ruby-crowned kinglet, 23; Am. pipit, 200 (partly est.); cedar waxwing, 95 (partly est.);

loggerhead shrike, 3; white-eyed vireo, 1; blue-headed vireo, 3; black and white warbler, 1; myrtle warbler, 49; pine warbler, 17; palm warbler, 9; yellow-throat, 3; meadowlark, 1; red-wing, 447 (partly est.); grackle, 1; cardinal, 42; goldfinch, 42; towhee (both red-eyed and Howell's represented), 17; grasshopper sparrow, 2; vesper sparrow, 34; Bachman's sparrow, 2; chipping sparrow, 29; field sparrow, 2; white-throated sparrow, 29; swamp sparrow, 6; song sparrow, 2. TOTAL, 63 species and subspecies; about 1544 individuals.—HERBERT L. STODDARD.

DAYTONA BEACH, FLA. (peninsula from Golf Blvd. to Earl St., beach to Inlet; mainland 7 miles west on Deland Road to swamp; south to New Smyrna; beach 28%, pinelands 28%, lagoons 23%, swamp, open fields, town suburbs each 7%).—Dec. 28. Dense fog until 10:30 A.M., clear in P.M.; wind NW, less than 1 m.p.h. in A.M., 1-7 m.p.h. in P.M.; temp. 57° to 65°. Nine observers in 4 parties. Total hours, 13½ (6 on foot, 7½ by car); total miles, 40 (32 by car, 8 on foot). Common loon, 4; pied-billed grebe, 4; brown pelican, 460; Florida cormorant, 110; Ward's heron, 4; Am. egret, 16; snowy egret, 1; Louisiana heron, 7; little blue heron, 15; black-crowned night heron, 10; yellow-crowned night heron, 3; white ibis, 1 (imm.); lesser scaup, 60; ruddy duck, 1; red-breasted merganser, 12; turkey vulture, 1; sharp-shinned hawk, 3; red-shouldered hawk, 4; bald eagle, 3; sparrow hawk, 4; coot, 2; piping plover, 11; semipalmated plover, 26; killdeer, 2; black-bellied plover, 6; ruddy turnstone, 29; spotted sandpiper, 5; red-backed sandpiper, 5; semipalmated sandpiper, 2; sanderling, 285; herring gull, 127; ring-billed gull, 400; laughing gull, 224; Bonaparte's gull, 8; Forster's tern, 495; royal tern, 159; black skimmer, 520; mourning dove, 3; ground dove, 6; kingfisher, 11; flicker, 4; pileated woodpecker, 2; red-bellied woodpecker, 9; downy woodpecker, 1; phoebe, 6; blue jay, 7; crow, 2; fish crow, 122; Carolina chickadee, 1; tufted titmouse, 3; house wren, 5; Carolina wren, 4; mockingbird, 32; catbird, 6; brown thrasher, 2; robin, 6; bluebird, 6; blue-gray gnatcatcher, 7; ruby-crowned kinglet, 5; loggerhead shrike, 5; white-eyed vireo, 4; myrtle warbler, 65; yellow-throated warbler, 5; prairie warbler, 1; western palm warbler, 33; yellow-throat, 3; English sparrow, 50; red-wing, 2; cardinal, 11; goldfinch, 25; towhee, 9; chipping sparrow, 2; swamp sparrow, 5; song sparrow, 4. TOTAL, 74 species; about 3503 individuals. (Seen in area Dec. 27: orange-crowned warbler, 1; purple grackle, 50; Dec. 29: blue-headed vireo, 1.)—R. J. LONGSTREET, A. J. DEITRICH, H. F. KORTHEUER, W. SHELTON, E. L. MEAD, E. M. PORTER, M. A. WALBRAN, E. N. GRANVILLE, R. S. AMES (Halifax River Bird Club).

JACKSONVILLE, FLA. (including territory from 6 miles west to beaches, Mayport, and St. John's River mouth; hammocks 15%, salt marsh 5%, pine woods 25%, beaches 50%, fresh-water marsh 5%).—Dec. 28; 8:30 A.M. to 5:30 P.M. Heavy fog until noon, fair and sunny in P.M.; temp. 47° to 54°; wind SW, 8-12 m.p.h. Two observers together. Total hours, 9 (6 on foot, 3 by car); total miles, 45 (5 on foot, 40

by car). Red-throated loon (found dead on beach), 1; brown pelican, 8; cormorant, 15; Ward's heron, 2; Am. egret, 1; snowy egret, 1; Louisiana heron, 1; little blue heron, 2; Am. bittern, 1; duck (unid.), 15; red-breasted merganser, 1; sharp-shinned hawk, 2; red-tailed hawk, 1; red-shouldered hawk, 1; bald eagle, 1; marsh hawk, 1; sparrow hawk, 3; clapper rail, 17; coot, 7; piping plover, 1; semipalmated plover, 2; killdeer, 12; black-bellied plover, 1; ruddy turnstone, 6; Wilson's snipe, 1; greater yellow-legs, 1; lesser yellow-legs, 3; sanderling, 32; herring gull, 41; ring-billed gull, 76; laughing gull, 75; common tern, 125; royal tern, 26; black skimmer, 25; mourning dove, 4; ground dove, 4; kingfisher, 2; flicker, 12; red-bellied woodpecker, 6; yellow-bellied sapsucker, 2; hairy woodpecker, 1; phoebe, 2; tree swallow, 20; blue jay, 8; fish crow, 25; chickadee, 2; tufted titmouse, 5; white-breasted nuthatch, 1; brown-headed nuthatch, 5; house wren, 6; Carolina wren, 2; long-billed marsh wren, 4; short-billed marsh wren, 2; mockingbird, 12; catbird, 2; robin, 30; bluebird, 15; ruby-crowned kinglet, 5; pipit, 125; loggerhead shrike, 2; black and white warbler, 1; myrtle warbler, 125; yellow-throated warbler, 1; pine warbler, 28; palm warbler, 25; yellow-throat, 3; English sparrow, 12; meadowlark, 10; red-wing, 75; boat-tailed grackle, 50; Florida grackle, 1; cardinal, 19; goldfinch, 8; red-eyed towhee, 15; white-eyed towhee, 2; savannah sparrow, 11; sharp-tailed sparrow, 12; seaside sparrow, 5; pine-woods sparrow, 1; chipping sparrow, 10; swamp sparrow, 10; song sparrow, 2. TOTAL, 82 species; about 1238 individuals.—S. A. GRIMES, PFC. LOUIS M. HOWELL.

ORLANDO, FLA. (area included between Conway, Fairvilla, Forest City, Longwood, South end Lake Jessup, Oviedo, and Cheney Hy. to Orlando Air Base; pineland 25%, wet prairie 5%, hardwood forest 15%, lake shores 20%, orange groves 15%, scrub oak 10%, open fields 10%).—Dec. 24. Heavy fog and light drizzle, with low overcast, until 1 P.M., then fair; temp. 57° to 75°; wind NW veering to NE, 5-12 m.p.h. Seven observers in 6 parties. Total hours, 45 (43 on foot, 2 on bicycle; total miles, 42 (22 on foot, 20 on bicycle). Horned grebe, 16; pied-billed grebe, 98; cormorant, 3; water-turkey, 2; Ward's heron, 4; Am. egret, 2; snowy egret, 1; Louisiana heron, 2; little blue heron, 5; green heron, 2; Am. bittern, 3; mallard, 84; ring-necked duck, 32; canvas-back, 1; scaup (sp.?), 141; ruddy duck, 85; red-breasted merganser, 4; turkey vulture, 35; black vulture, 160 (at roost); sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 5; red-shouldered hawk, 5; bald eagle, 2; marsh hawk, 10; osprey, 1; sparrow hawk, 18; bob-white, 30; sora, 1; Florida gallinule, 4; coot, 1197; killdeer, 87; Wilson's snipe, 3; herring gull, 5; ring-billed gull, 129; Forster's tern, 23; mourning dove, 210; ground dove, 11; barred owl, 1; kingfisher, 13; flicker, 22; pileated woodpecker, 3; red-bellied woodpecker, 45; red-headed woodpecker, 14; yellow-bellied sapsucker, 2; hairy woodpecker, 5; downy woodpecker, 5; phoebe, 44; tree swallow, 82; blue jay, 152; crow, 20; fish crow, 200 (est.); crow (sp.?), 1700 (est.—going to roost); Carolina chickadee, 4; tufted titmouse, 32; brown-headed nuthatch, 7;

house wren, 69; Carolina wren, 19; short-billed marsh wren, 8; mockingbird, 105; catbird, 15; brown thrasher, 25; robin, 51; hermit thrush, 5; bluebird, 19; blue-gray gnatcatcher, 109; ruby-crowned kinglet, 113; loggerhead shrike, 38; white-eyed vireo, 17; blue-headed vireo, 14; orange-crowned warbler, 3; parula warbler, 2; myrtle warbler, 417; yellow-throated warbler, 12; pine warbler, 24; w. palm warbler 298; yellow palm warbler (specimen collected), 6; oven-bird, 4; yellow-throat, 36; English sparrow, 83; meadowlark, 68; red-wing, 155; boat-tailed grackle, 55; Florida grackle, 7; cardinal, 66; goldfinch, 46; Alabama towhee, 12; white-eyed towhee, 10; towhee (sp.?), 85; savannah sparrow, 11; grasshopper sparrow, 1; Leconte's sparrow, 1; Henslow's sparrow, 3; vesper sparrow, 1; pine-woods sparrow, 30; chipping sparrow, 34; field sparrow, 19; white-throated sparrow, 1; swamp sparrow, 20; song sparrow, 5. TOTAL, 98 species and subspecies; about 6897 individuals. (Seen in area Dec. 26: black-crowned night heron, 1; screech owl, 2; Dec. 29: turkey, 2 (fresh tracks reported by experienced hunter); black skimmer, 1; Jan. 1: red-cockaded woodpecker, 4; Florida jay, 4; Am. pipit, 11; cowbird, 6.)—A. SIDNEY HYDE, KARL C. LEEBRICK, OLIVER P. MEDSGER, WRAY NICHOLSON, MARSHALL NIRENBERG, JAMES A. PITTMAN, JR., FRANK MCCAMEY.

PENSACOLA, FLA. (territory covered same as in 1943, with more attention to coastwise woods, less to upland areas; city and suburban areas 13%, open sound and bay and bay shores (largely by car) 25%, mature liveoak and deciduous woods 19%, pine woods 1%, fields, pastures and cut-over woodland (mostly by car) 34%, fresh-water swamps 2%, ponds 4%, Gulf beach 2%).—Dec. 24; 8 A.M. to 6 P.M. (C.W.T.). Heavy fog in A.M., clearing on upland by 10 A.M., on coast at noon, clear all P.M.; light breeze, E in A.M., shifting to SE in P.M.; temp. 53° to 68°. Seven observers in 2 parties. Total hours, 20 (11 by car, 9 on foot); total miles, 84 (74 by car, 10 on foot). Common loon, 28; horned grebe, 26 (1 flock of 23); pied-billed grebe, 3; brown pelican, 35; double-crested cormorant, 31; Ward's heron, 4; lesser scaup, 608 (1 flock of 450 est.); Am. golden-eye, 1; hooded merganser, 4; red-breasted merganser, 10; turkey vulture, 7; black vulture, 8; sharp-shinned hawk, 1; red-shouldered hawk, 1; bald eagle, 1 (incubating); marsh hawk, 1; sparrow hawk, 8; bob-white, 7 (covey); coot, 6; semipalmated plover, 2 (rare in winter); Cuban snowy plover, 1; killdeer, 27; black-bellied plover, 12; red-backed sandpiper, 7; sanderling, 104; herring gull, 33; ring-billed gull, 30; laughing gull, 3; royal tern, 20; black skimmer, 16 (flock); mourning dove, 22; belted kingfisher, 9; flicker, 19; red-bellied woodpecker, 7; red-headed woodpecker, 6 (unusual number for winter); yellow-bellied sapsucker, 3; hairy woodpecker, 2; downy woodpecker, 2; red-cockaded woodpecker, 3; ash-throated flycatcher, 1 (a "freak" occurrence; specimen collected and identification confirmed by Fish and Wildlife Service); phoebe, 8; blue jay, 34; crow, 30; Carolina chickadee, 2; tufted titmouse, 12; brown-headed nuthatch, 8; brown creeper, 1; house wren, 4; Bewick's wren, 1 (rare); Carolina wren, 3; mock-

ingbird, 29; brown thrasher, 7; robin, 47; hermit thrush, 4; bluebird, 39; blue-gray gnatcatcher, 6; golden-crowned kinglet, 6; ruby-crowned kinglet, 25; Am. pipit, 53 (1 flock of 50 est.); cedar waxwing, 16 (1 flock); loggerhead shrike, 16; starling, 80 (1 flock of 60 est.); blue-headed vireo, 9; orange-crowned warbler, 1; myrtle warbler, 98; pine warbler, 44; western palm and yellow palm warblers (some typical examples of each definitely identified), 26; yellow-throat, 1; English sparrow, 99 (partly est.); meadowlark, 6; red-wing, 15; Florida grackle, 100 (1 flock, est.); cardinal, 9; goldfinch, 7; red-eyed and Alabama towhees (some typical examples of each definitely identified), 11; seaside sparrow, 1; savannah sparrow, 23; vesper sparrow, 3; chipping sparrow, 40; field sparrow, 2; white-throated sparrow, 69; swamp sparrow, 5; song sparrow, 5. TOTAL, 85 species and subspecies; about 2124 individuals. (Representative species not found: piping plover, Bonaparte's gull, common and Forster's terns, fish crow.)—CHAS. J. KAHN, E. J. KOESTNER, LENNIE PATE, KENNETH R. TANNER, MALETA M. WERNICKE, A. FREDERICK WICKE, JR., FRANCIS M. WESTON.

ST. MARKS NATIONAL WILDLIFE REFUGE, ST. MARKS, FLA. (around "The Mounds," along Lighthouse Road to Aucilla Tramroad, down Tramroad to junction with Outer Dike, down Outer Dike to junction with North-South Dike, along North-South Dike to Lighthouse Road then to Lighthouse, Newport, and St. Marks).—Dec. 31; 8 A.M. to 6 P.M. Clear; ground bare; wind SE, 15-20 m.p.h.; temp. 52° to 67°. Total miles, 42 (38 by car, 4 by foot); total hours, 10. Common loon, 2; horned grebe, 6; pied-billed grebe, 200; white pelican, 13; brown pelican, 3; double-crested cormorant, 307; water-turkey, 9; great blue heron, 56; Am. egret, 175; snowy egret, 9; Louisiana heron, 16; little blue heron, 16; black-crowned night heron, 2; white ibis, 95 (imm., with exception of 1 bird); whistling swan, 6 (first year these birds have wintered on refuge since its establishment in 1931); Canada goose, 4000; lesser snow goose, 3; blue goose, 9; mallard, 400; black duck, 75; gadwall, 25; baldpate, 1200; Am. pintail, 3000; green-winged teal, 129; blue-winged teal, 125; shoveller, 400; redhead, 10; ring-necked duck, 1000; canvas-back, 2; lesser scaup, 2000; Am. golden-eye, 6; buffle-head, 11; ruddy duck, 150; hooded merganser, 300; red-breasted merganser, 150; turkey vulture, 236; black vulture, 116; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 9; red-shouldered hawk, 6; bald eagle, 12; marsh hawk, 12; sparrow hawk, 2; bob-white, 7; Florida gallinule, 30; coot, 36,000; semipalmated plover, 5; Wilson's plover, 1; killdeer, 9; black-bellied plover, 1; ruddy turnstone, 3; woodcock, 1; willet, 26; lesser yellow-legs, 7; least sandpiper, 20; red-backed sandpiper, 400; dowitcher, 11; semipalmated sandpiper, 6; western sandpiper, 29; herring gull, 156; ring-billed gull, 126; common tern, 1; black skimmer, 3; mourning dove, 31; barn owl, 1; great horned owl, 2; barred owl, 1; belted kingfisher, 3; flicker, 4; pileated woodpecker, 1; red-bellied woodpecker, 9; yellow-bellied sapsucker, 1; downy woodpecker, 1; phoebe, 20; tree swallow,

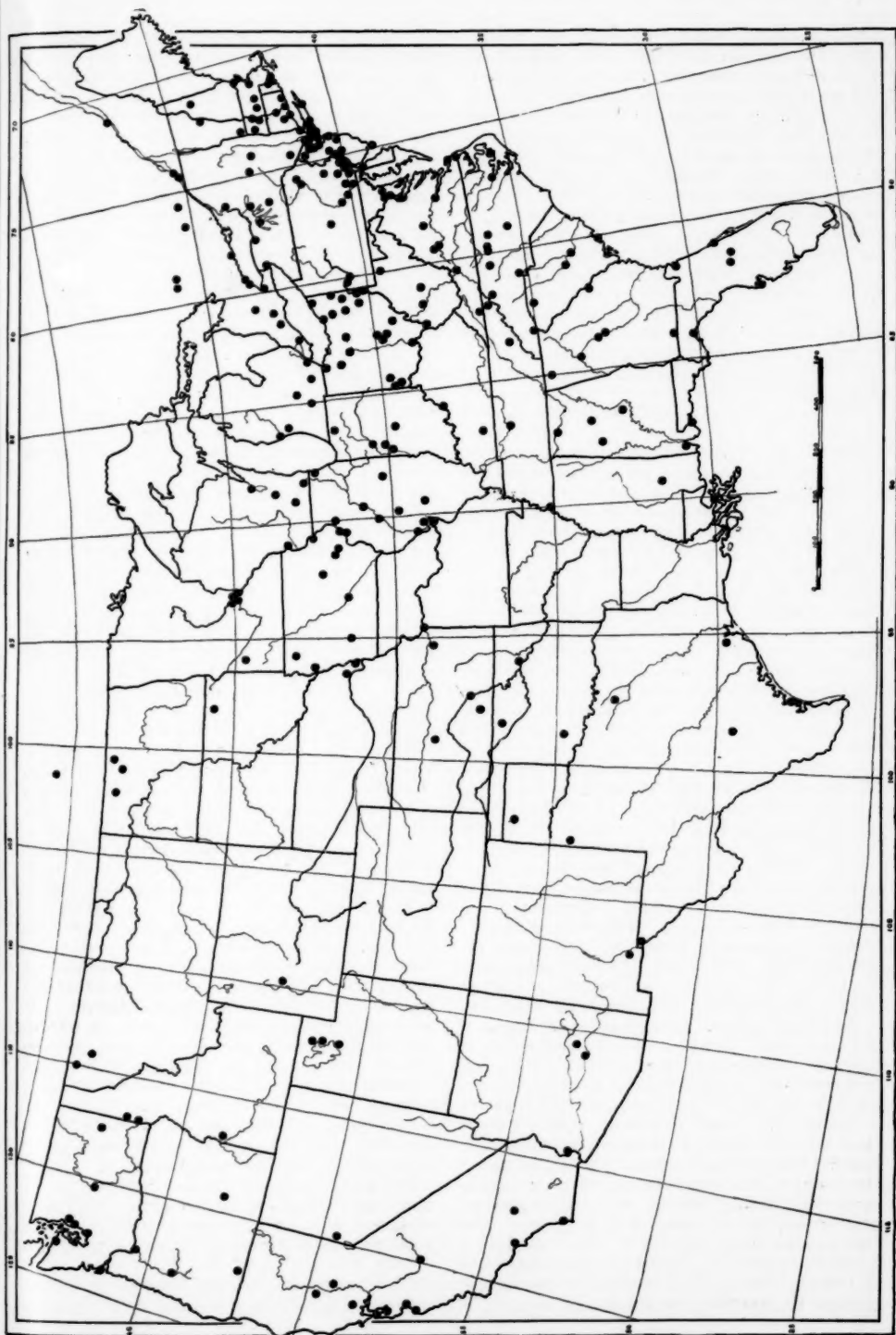
189; blue jay, 18; crow, 24; Carolina chickadee, 2; tufted titmouse, 2; brown-headed nuthatch, 15; house wren, 3; Carolina wren, 4; short-billed marsh wren, 2; mockingbird 75; catbird, 5; brown thrasher, 4; robin, 30; bluebird, 6; blue-gray gnatcatcher, 2; ruby-crowned kinglet, 6; cedar waxwing, 20; loggerhead shrike, 6; starling, 2; myrtle warbler, 600; pine warbler, 3; yellow-throat, 14; meadowlark, 6; red-wing, 100; boat-tailed grackle, 50; purple grackle, 4; cardinal, 10; goldfinch, 6; red-eyed towhee, 80; seaside sparrow, 26; white-throated sparrow, 5; song sparrow, 7. TOTAL, 107 species; 52,547 individuals. (A single immature male vermilion flycatcher was observed throughout the fall and 2 days prior to count).—LAWRENCE S. GIVENS.

ST. PETERSBURG, FLA. (Gulfport, Pass-a-Grille, Gulf Beaches and Shore Acres; beaches and lakes 75%, pine-oak woodland 20%, marsh and dense undergrowth 5%).—Dec. 26. Fair; temp. 62° to 76°; wind E, 5 m.p.h. Eighteen observers in 10 parties. Total hours, 64-1/6 (44-1/6 on foot, 14-1/2 in car, 5-1/2 by canoe); total miles, 110-1/2 (67 by car, 12 by canoe, 31-1/2 on foot). Common loon, 24; pied-billed grebe, 17; white pelican, 13; brown pelican, 310; double-crested cormorant, 199; water-turkey, 1; man-o-war bird, 1; great blue heron, 5; Ward's (or great blue) heron, 49; Am. egret, 82; snowy egret, 40; Louisiana heron, 53; little blue heron, 40; black-crowned night heron, 1; yellow-crowned night heron, 8; wood ibis, 14; white ibis, 83; Am. pintail, 51; ring-necked duck, 19; lesser scaup, 3593; red-breasted merganser, 106; turkey vulture, 31; black vulture, 6; red-shouldered hawk, 3; bald eagle, 16 (nesting); marsh hawk, 14; osprey, 2; sparrow hawk, 26; bob-white, 98; Florida gallinule, 36; coot, 127; oyster-catcher, 2; piping plover, 201; semipalmated plover, 3; Wilson's plover, 29; killdeer, 17; black-bellied plover, 40; ruddy turnstone, 188; Wilson's snipe, 3; spotted sandpiper, 36; willet, 194; least sandpiper, 100; red-backed sandpiper, 40; dowitcher, 34; semipalmated sandpiper, 101; western sandpiper, 7; sanderling, 40; herring gull, 172; ring-billed gull, 420; laughing gull, 137; Forster's tern, 35; royal tern, 77; Cabot's tern, 3; Caspian tern, 1; black skimmer, 1199; mourning dove, 55; ground dove, 50; belted kingfisher, 37; flicker, 24; red-bellied woodpecker, 32; red-headed woodpecker, 3; yellow-bellied sapsucker, 1; downy woodpecker, 3; phoebe, 8; blue jay, 64; crow, 1; fish crow, 183; tufted titmouse, 5; house wren, 7; Carolina wren, 5; Marian's marsh wren, 2; mockingbird, 175; catbird, 10; brown thrasher, 7; robin, 11; bluebird, 72; blue-gray gnatcatcher, 19; ruby-crowned kinglet, 3; loggerhead shrike, 26; blue-headed vireo, 3; black and white warbler, 2; myrtle warbler, 278; yellow-throated warbler, 7; pine warbler, 2; prairie warbler, 10; western palm warbler, 118; yellow-throat, 2; English sparrow, 35; meadowlark, 36; red-wing, 134; boat-tailed grackle, 117; cardinal, 19; goldfinch, 58; red-eyed towhee, 11; white-eyed towhee, 32; savannah sparrow, 4; seaside sparrow, 2; vesper sparrow, 1; chipping sparrow, 7. TOTAL, 99 species and subspecies; about 9828 individuals.—MARY LOU MILLS, ROBERT JOHNSON, BOYD HILL, DENNY RUSHNOW, MARJORIE QUIRIN, MARTHA BUCHWALD, MARIE

P. COBB, MRS. HOWARD POMEROY, EMILY COBB, PREBLE COBB, MRS. C. N. HASKINS, MRS. FRANK GOFF, WILLIAM G. FARGO, MARIE G. WILLSON, AUGUSTA V. H. A. LEUCHS, GRACE MARTIN, DAISIE M. MORRISON.

WINTER GARDEN, FLA. (Lake Apopka and adjacent area to southeast; open water 30%, marsh and wet field 20%, deciduous forest 25%, marshy lake shore 15%, brushy forest edge 10%).—Dec. 31. Fair; temp. 55° to 80°; wind SE, 2-18 m.p.h. Five observers in 2 parties. Total hours, 17 (13 on foot, 4 in motorboat); total miles, 72 (12 on foot, 60 in motorboat). Common loon, 3; pied-billed grebe, 350 (est.); cormorant, 45; water-turkey, 28; Ward's heron, 21; Am. egret, 33; snowy egret, 1; Louisiana heron, 21; little blue heron, 49; black-crowned night heron, 15; mallard, 12; Florida duck, 6; baldpate, 30; pintail, 6; shoveller, 16; redhead, 1; ring-necked duck, 56; canvas-back, 1; scaup (sp?) 100 (est.); ruddy duck, 100 (est.); turkey vulture 12; black vulture, 3; sharp-shinned hawk, 1; Cooper's hawk, 5; red-tailed hawk, 2; red-shouldered hawk, 15; bald eagle, 4; marsh hawk, 14; osprey, 1; sparrow hawk, 19; bob-white, 38; Florida gallinule, 8; coot, 40,000 (est.); killdeer, 18; Wilson's snipe, 100 (est.); greater yellow-legs, 1; herring gull, 12; ring-billed gull, 47; Forster's tern, 25; Caspian (?) tern, 1; mourning dove, 4; ground dove, 32; barn owl, 1; kingfisher, 6; flicker, 10; pileated woodpecker, 1; red-bellied woodpecker, 16; yellow-bellied sapsucker, 2; downy woodpecker, 2; crested flycatcher, 1 (carefully examined at close range—A.S.H.); phoebe, 21; tree swallow, 200 (est.); blue jay, 12; fish crow, 44; Carolina chickadee, 1; tufted titmouse, 2; house wren, 28; Carolina wren, 13; short-billed marsh wren, 2; mockingbird, 12; catbird, 6; brown thrasher, 3; robin, 23; hermit thrush, 2; bluebird, 2; blue-gray gnatcatcher, 41; ruby-crowned kinglet, 13; Am. pipit, 15; loggerhead shrike, 3; white-eyed vireo, 8; blue-headed vireo, 2; black and white warbler, 2; orange-crowned warbler, 10; myrtle warbler, 42; yellow-throated warbler, 2; pine warbler, 1; prairie warbler, 3; w. palm warbler, 109; yellow palm warbler, 2; oven-bird, 3; yellow-throat, 32; English sparrow, 10; meadowlark, 1; red-wing 260 (est.); boat-tailed grackle, 40; Florida grackle, 1; cardinal, 21; painted bunting, 1; goldfinch, 8; red-eyed towhee, 14; white-eyed towhee, 3; savannah sparrow, 6; pine-woods sparrow, 1; chipping sparrow, 100 (est.); field sparrow, 2; white-throated sparrow, 9; Lincoln's sparrow (closely examined and identified by 3 observers—G.M.S.), 2; swamp sparrow, 108; song sparrow, 4. TOTAL, 99 species and subspecies; approximately 42,545 individuals.—A. SIDNEY HYDE, KARL C. LEEBRICK, GEORGE M. SUTTON, J. B. WALKER, FRANK MCCAMEY.

ASHLAND, OHIO (Charles Mill Dam area, territory covered consists of 4/5 of land adjacent to lake; deciduous woods 40%, waste fields 34%, cultivated fields 4%, marsh and brushy swamps 6%, roadsides 12%, shore flats 2%, spruce grove 2%).—Dec. 31. Cloudy, light rain after 3:30 P.M.; temp. 35°; wind S, 0-5 m.p.h.; ground covered 8-in. crusted snow; lake frozen with 5-in. ice, covered



Distribution of Audubon Magazine's Forty-fifth Christmas Bird Count

with 1-in. slushy snow. Nine observers in 4 parties. Total hours, 25 (on foot); total miles, 34 (on foot). Black duck, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 38; pheasant, 33; mourning dove, 5; barred owl, 3; kingfisher, 1; flicker, 9; pileated woodpecker, 1; red-bellied woodpecker, 16; hairy woodpecker, 6; downy woodpecker, 29; blue jay, 24; black-capped chickadee, 30; tufted titmouse, 78; white-breasted nuthatch, 48; Carolina wren, 3; robin, 1; bluebird, 30; golden-crowned kinglet, 1; ruby-crowned kinglet, 2 (top of head observed clearly—B.C.K., J.C.); starling, 112; English sparrow, 261; rusty blackbird, 1; cardinal, 56; goldfinch, 91; junco, 28; tree sparrow, 282; swamp sparrow, 6; song sparrow, 97. TOTAL, 31 species; approximately 1295 individuals. Four unidentified hawks were seen.—NORMAN A. PREBLE, PAUL D. HARWOOD, H. S. TELFORD, C. S. ROSS, S. M. MARTIN, JANE CROSS, VIRGIL COOKE, DONALD BRUBAKER, BURTON C. KAHL (members and guests, Ashland Naturalists Society).

ASHTABULA, OHIO (Lake Erie shore from west of Ashtabula to Conneaut [14 miles] and most of the lake plain, from shore inland 4 miles; open farmland 50%, swamp forest beach-maple woodlands with much hemlock and some white pine 25%, abandoned fields with aspen-sumac-thorn-apple thickets 20%, river gorges, swamps, ponds, and bottomlands 5%).—Dec. 27; 7 A.M. to 5 P.M. Heavy overcast; temp. -8° in A.M., rapidly rising to 22° in P.M., wind SE, shifting to W, 8-26 m.p.h.; snow accumulation during previous 2 weeks 18 inches, with considerable drifting and crusting; visibility much reduced by driving snow from noon on; all ponds and most streams frozen, Lake Erie open except for breakwater enclosures and a 400-yd. rim of drift ice. Water birds more concentrated than for many years about warm water discharged by Cleveland Illuminating Co. plant. Five observers in 3 parties. Total party hours, 27 (22 on foot, 5 in auto); total miles, 80 (18 on foot, 62 by auto). The deep snows reduced coverage and efficient observation. Common loon, 1; pied-billed grebe, 1; double-crested cormorant, 2; black-crowned night heron, 1 (coll.); whistling swan, 2; mallard, 8; black duck, 34; baldpate, 1; pintail, 1; redhead, 1; ring-necked duck, 1; lesser scaup, 94; golden-eye, 48; buffle-head, 2; ruddy duck, 1; oldsquaw (?), 12; surf scoter, 2 (observed at 100 ft.); hooded merganser, 2; Am. merganser, 490; red-breasted merganser, 8; sharp-shinned hawk, 1; Cooper's hawk, 3; sparrow hawk, 1; pheasant, 1; coot, 2; glaucous gull, 1; great black-backed gull, 7 (3 adults); ring-billed gull, 4; herring gull, 580; Bonaparte's gull, 1; screech owl, 1; barred owl, 1; kingfisher, 1; pileated woodpecker, 1 (heard); hairy woodpecker, 2; downy woodpecker, 22; blue jay, 32; crow, 1 (dead); black-capped chickadee, 53; tufted titmouse, 6; white-breasted nuthatch, 2; golden-crowned kinglet, 2; starling, 165; English sparrow, 235; cardinal, 42; red crossbill (?), 1; junco, 18; tree sparrow, 31; song sparrow, 2; snow bunting, 1. TOTAL, 50 species; 1932 individuals.—LAWRENCE E. HICKS, CHARLES A. DAMBACH, ROBERT RAUSCH, GEORGE H. BREIDING, FRED SCHOB.

ATHENS, OHIO (approximately two-thirds of area covered in counts of past 2 years; hillside and highway, Athens to 4 miles east; river road, Athens to 4 miles east; river and hills, Athens to 2 miles southeast; hill region 3 miles west of Athens; woodland 40%, open fields 25%, suburban areas 25%, river bank 10%).—Dec. 31; 8 A.M. to 6 P.M. Continuous drizzle after 9 A.M.; temp. 36°; wind NW, negligible; ground covered with 2-6 in. icy snow. Seven observers in 2 parties. Total hours, 14; total miles, 24 (10 on foot, 14 by car). Mallard, 7; hooded merganser, 2; sharp-shinned hawk, 1; Cooper's hawk, 1; sparrow hawk, 2; bob-white, 27; mourning dove, 2; great horned owl, 1; kingfisher, 2; flicker, 2; red-bellied woodpecker, 3; hairy woodpecker, 1; downy woodpecker, 36; pileated woodpecker, 1; blue jay, 6; Carolina chickadee, 130; tufted titmouse, 80; white-breasted nuthatch, 1; brown creeper, 4; Carolina wren, 32; mockingbird, 6; bluebird, 15; golden-crowned kinglet, 3; cedar waxwing, 2; starling, 25; English sparrow, 600; cardinal, 160; goldfinch, 16; towhee, 4; junco, 130; tree sparrow, 135; song sparrow, 120. TOTAL, 32 species; 1557 individuals.—KING ADAMSON, H. T. GIER, H. W. HOWELL, HAZEL ROACH, JAMES SEWARD, MR. and MRS. T. M. WOLFE (Athens Bird Club).

BUCKEYE LAKE, OHIO (about the same area as in past 20 years; deciduous woodland 60%, open farmland 30%, brushy swamp and cattail marsh 10%).—Dec. 29. Partly cloudy in A.M., fog and rain in late P.M.; temp. 19° to 31°; wind E, 7-17 m.p.h.; 3-in. heavily crusted snow on ground, lake frozen to depth of 8-in. with only 1 small open hole in ice. Six observers in 3 parties. Total man miles, 37; total auto miles, 85. Common mallard, 65; black duck, 47; Am. pintail, 2; Am. golden-eye, 4; hooded merganser, 2; Am. merganser, 1; sharp-shinned hawk, 1; Cooper's hawk, 7; red-shouldered hawk, 1; red-tailed hawk, 2; marsh hawk, 6; sparrow hawk, 2; bob-white, 138 (15 coveys); ring-necked pheasant, 16; mourning dove, 180; screech owl, 2; barred owl, 1; flicker, 20; pileated woodpecker, 2; red-bellied woodpecker, 15; red-headed woodpecker, 8; hairy woodpecker, 14; downy woodpecker, 103; horned lark, 16; blue jay, 67; crow, 57; Carolina chickadee, 85; tufted titmouse, 107; white-breasted nuthatch, 36; brown creeper, 26; winter wren, 3; Carolina wren, 6; mockingbird, 2; robin, 2; bluebird, 9; golden-crowned kinglet, 9; starling, 170; myrtle warbler, 3; English sparrow, 636; meadowlark, 2; red-wing, 31; rusty blackbird, 20; cowbird, 3; cardinal, 142; goldfinch, 39; red-eyed towhee, 6; slate-colored junco, 128; tree sparrow, 624; white-throated sparrow, 1; swamp sparrow, 16; song sparrow, 185; snow bunting, 32. TOTAL, 52 species; 3222 individuals.—CHARLES A. DAMBACH, LAWRENCE E. HICKS, ROBERT L. RAUSCH, FRED A. SCHOB, MILTON B. TRAUTMAN, CHARLES F. WALKER.

BUCYRUS, OHIO (fields and woods 4½ miles southeast of city, well within circle 15 miles in diameter).—Dec. 24; 8:30 A.M. to 5:15 P.M. Cloudy with occasional sunshine; ground deeply snow covered; wind E veering to S, light; temp. 16° at start, 28° at return. Two observers together in P.M., 1 alone in A.M. Total hours, 8¾ (7 on foot, 1¼

by car); total miles, 8 (6 by car, 2 on foot). Red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 22; ring-necked pheasant, 9; mourning dove, 50; red-bellied woodpecker, 3; hairy woodpecker, 4; downy woodpecker, 5; blue jay, 2; crow, 4; black-capped chickadee, 1; tufted titmouse, 17; white-breasted nuthatch, 6; starling, 113; English sparrow, 29; cardinal, 22; slate-colored junco, 3; tree sparrow, 8; song sparrow, 17. TOTAL, 21 species; 320 individuals.—CHAS. H. KUEHNLE, PAUL F. KUEHNLE.

CADIZ, OHIO (to points 5 miles west; open farmland and farmlots 50%, town backyards and environs 15%, brushy roadsides 10%, woodland 25%).—Dec. 24; 9 A.M. to 5:30 P.M. Mostly heavy overcast with misty horizons; light sleet in late P.M.; temp. 28° to 36°; wind SE, 1-5 m.p.h.; ground covered with 6-8-in. packed snow, many deep drifts, following 2 weeks of persistent cold weather and frequent snows. Ten observers, together, except for group of 4 separate a 2-hour period. Total hours, 10 (9 on foot, 1 in car); total miles, 14 (8 by car, 6 on foot). Sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 1; sparrow hawk, 2; bob-white, 33 (and tracks); mourning dove, 1; screech owl, 1; flicker, 2; pileated woodpecker, 3; red-bellied woodpecker, 4; hairy woodpecker, 3; downy woodpecker, 5; horned lark, 2; blue jay, 2; crow, 12; Carolina chickadee, 23; tufted titmouse, 11; white-breasted nuthatch, 2; Carolina wren, 11; bluebird, 5; Am. pipit, 1 (caught when it walked into garage —H.B.McC.); starling, 18; English sparrow, 164; cardinal, 42; towhee, 1; junco, 16; tree sparrow, 17; song sparrow, 11. TOTAL, 28 species; 395 individuals.—H. B. McCONNELL, JOHN G. WORLEY, JOHN C. WORLEY, DAVID WORLEY, SGT. MILTON McC. RONSHEIM, HAROLD HAVERFIELD, RAYMOND REED, HOWARD COFFLAND, MARTHA J. MITCHELL, SARA K. McCLINTOCK.

CANTON, OHIO (area 15 miles in diameter with Canton as center; parks and suburbs 30%, open farmlands 30%, woodlots, 20%, pastures 20%).—Dec. 31. Dull, very foggy; temp. 30° to 34°; calm; lakes and ponds frozen. Fifteen observers in 13 parties. Total hours, 41 (38 on foot, 3 by car); total miles, 62 (37 on foot, 25 by car). Black duck, 1; Cooper's hawk, 2; bob-white, 30 (6 coveys); mourning dove, 8; screech owl, 1; hairy woodpecker, 9; downy woodpecker, 25; blue jay, 28; crow, 263; black-capped chickadee, 29; tufted titmouse, 23; white-breasted nuthatch, 14; red-breasted nuthatch, 4; brown creeper, 4; golden-crowned kinglet, 2; starling, 1629; English sparrow, 395; cowbird, 1 (seen feeding with starlings by D.B.); cardinal, 46; pine siskin, 7; goldfinch, 7; towhee, 1 (seen at 15 ft. by C.H.K.); tree sparrow, 62; song sparrow, 49. TOTAL, 24 species; 2640 individuals.—ELEANOR ANDERSON, ROBERT BALL, J. G. BIKES, DON BROWN, C. R. BRUSH, MR. and MRS. J. L. FLOYD, HARTZELL JUSTICE, C. H. KAUFHOLTZ, C. H. KAUFHOLTZ, JR., C. H. KUEHNLE, JAMES LEYMAN, GEORGE NIEPORT, D. R. PRATT, C. L. RILEY, (members Neo Naturalists).

CLEVELAND, OHIO (Gordon Park to Fairport Harbor along the Lake Erie shore; inland to Shaker

Lake, Gates Mills, and North Chagrin reservation; lake shore 15%, beech-maple climax forest 25%, open farmland 30%, town suburbs 10%, thickets 15%, swamps 5%).—Dec. 31; dawn to dusk. Foggy with visibility limited to about 150 ft., but clearing in late P.M.; slight S wind in early P.M. only; temp. 32° to 36°; snow knee-deep after frequent snowstorms since Dec. 11; Lake Erie open but ponds and rivers mostly frozen. Twenty-one observers in 7 parties. Total hours afield, 50 (41 on foot, 9 in cars); total miles, 148 (33 on foot, 115 by car). Common loon, 1; mallard, 2; redhead, 1; canvas-back, 1; lesser scaup, 100; Am. golden-eye, 40; buffle-head, 1; ruddy duck, 2; Am. merganser, 91; red-breasted merganser, 87; Cooper's hawk, 3; red-tailed hawk, 1; ruffed grouse, 1; bob-white, 12; pheasant, 9; coot, 1; herring gull, 58; ring-billed gull, 41; Bonaparte's gull, 23; rock dove, 40; mourning dove, 22; barred owl, 1; flicker, 1; pileated woodpecker, 8; red-bellied woodpecker, 1; hairy woodpecker, 10; downy woodpecker, 51; blue jay, 66; crow, 3; black-capped chickadee, 69; tufted titmouse, 60; white-breasted nuthatch, 48; brown creeper, 1; catbird, 1 (came to window feeding-shelf at Willoughby, refusing under tail coverts noted —E.R.); robin, 15 (13 in 1 flock—J.F.); golden-crowned kinglet, 19; cedar waxwing, 45; starling, 102; English sparrow, 360; cardinal, 75; goldfinch, 1; towhee, 10; slate-colored junco, 140; tree sparrow, 61; song sparrow, 15. TOTAL, 45 species; about 1700 individuals. (Cardinals more abundant than usual, tree sparrows scarce, red-breasted nuthatches absent. Seen in area Dec. 24: double-crested cormorant, 1; great blue heron, 1.)—GEO. ANSLEY, VERA CARROTHERS, BEN DANIELS, EDITH DOBBINS, H. C. DOBBINS, JAMES FINDLEY, R. W. HILL, FLORENCE KATER, TOM McHUGH, NORMAN NEGUS, BRUCE NELSON, MARJORIE RAMISCH, E. ROCKLIFFE, F. N. SHANKLAND, C. M. SHIPMAN, BRIAN SHERWIN, MARGARET SHERWIN, MARION SKAGGS, M. B. WALTERS, A. B. WILLIAMS, M. B. SKAGGS (guests and members, The Kirtland Bird Club).

CUYAHOGA FALLS, OHIO (same territory as last year, except 2 areas inaccessible because of deep snow; city and suburban parks and streets 30%, Summit Lake 15%, open fields 15%, river borders and gorges, golf courses and Kent University campus 40%).—Dec. 31; dawn to dusk. Temp. 32°; no wind; dense fog clearing somewhat by 2:30; ground covered with 12-in. soft snow; all water frozen except Summit Lake and patches of Cuyahoga River. Total hours, 49 (40 on foot, 9 driving). Thirteen observers, mostly in singles and 2s. Horned grebe, 1; great blue heron, 1; golden-eye, 22; mallard, 3; lesser scaup, 3; Am. merganser, 26; hooded merganser, 6; sparrow hawk, 1; ruffed grouse, 1; bob-white, 9; ring-necked pheasant, 1; coot, 3; mourning dove, 3; barn owl, 3; barred owl, 1; belted kingfisher, 2; downy woodpecker, 47; hairy woodpecker, 8; blue jay, 62; black-capped chickadee, 82; tufted titmouse, 25; brown creeper, 4; white-breasted nuthatch, 36; Carolina wren, 1; golden-crowned kinglet, 20; cedar waxwing, 36; starling, 91; English sparrow, 151; cardinal, 138; slate-colored junco, 99; tree sparrow, 151; song

sparrow, 48; white-throated sparrow, 2. TOTAL, 33 species; about 1087 individuals. (Pileated woodpecker reported and described minutely by Mrs. Chisnell, Silver Lake, at feeding station with other woodpeckers.)—H. O. BOLICH, D. C. BYRER, RALPH DEXTER, JOHN LIEFTINGK, W. R. LODGE, MRS. MATTHIAS, CHARLES MOUNTZ, JOHN ROETZEL, FRED SMITH, MARTIN SMITH, HENRY STEVENS, JIM THORPE, WARREN TOWLE (Cuyahoga Falls Audubon Club).

DAYTON, OHIO (Woodland Cemetery, Madden Park, Shiloh, Island Park, Oakwood, Hills and Dales, Barr's Nursery, Cricket Holler, Memorial Park, Southern Hills, Miami River, Huffman, Englewood and Taylorville dams, and Township Line Road; woodland and thicket 45%, park and wooded residential 25%, river-banks 10%, fields and meadow 20%).—Dec. 31. Heavy fog, mist, light rain; temp. min. 33° max. 34°; wind constantly shifting, all directions, 2-6 m.p.h.; ground covered with snow and ice melting to slush; lakes icebound, streams nearly so. Twenty-four observers, 4 singly, 20 in 7 groups. Total hours, 48; total miles, 130 (42 on foot, 88 by car). Mallard, 17; black duck, 125; gadwall, 2; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 1; sparrow hawk, 2; bob-white, 23; ring-necked pheasant, 6; mourning dove, 29; rock dove, 5; screech owl, 1; flicker, 3; red-bellied woodpecker, 3; hairy woodpecker, 6; downy woodpecker, 68; horned lark, 1; blue jay, 6; crow, 119; chickadee, 142; tufted titmouse, 92; white-breasted nuthatch, 19; brown creeper, 17; winter wren, 1; Carolina wren, 9; mockingbird, 8; robin, 4; bluebird, 6; shrike (sp.), 1; starling, 177; English sparrow, 237; cardinal, 107; goldfinch, 42; junco, 249; tree sparrow, 90; white-crowned sparrow, 1 (at feeding station—Hoovens); song sparrow, 67. TOTAL, 37 species; 1689 individuals. (Seen within week: marsh hawk; a house wren seen almost daily in local greenhouse since Dec. 16.)—Mr. and Mrs. E. C. DuVAL, Mr. and Mrs. HERBERT GLASS, CHARLOTTE SEITNER, DOROTHEA EIKENBARY, CATHERINE HADELER, ALFRED BAUGHMAN, RICHARD KIRKPATRICK, ELOISE PYPER, RUTH CLARK, JACK LAMBERT, FRED, JOHN, PETER, MICHAEL, and MARTHA HOOVEN; FRANK BETZ, ISABEL DEAROLF, BERTRAM H. SMITH, DORIS and PAUL TOPPIN, JOSEPH and BEN J. BLINCOE (Dayton Audubon Society).

FINDLAY, OHIO (Shreve Bird Sanctuary and the 250 acres of Swamp Woods; ponds, meadows, undergrowth, second-growth woodland).—Dec. 30; 8 A.M. to 4 P.M. Overcast; temp. 10° to 18°; wind NW, 9 m.p.h.; 8-18-in. snow. Six observers. Red-tailed hawk, 3; sharp-shinned hawk, 1; ring-necked pheasant, 30; mourning dove, 3; flicker, 1; hairy woodpecker, 1; downy woodpecker, 3; blue jay, 9; crow, 496; tufted titmouse, 8; white-breasted nuthatch, 1; brown creeper, 1; hermit thrush, 1; golden-crowned kinglet, 1; starling, 41; English sparrow, 276; cardinal, 7; slate-colored junco, 32; tree sparrow, 14; white-crowned sparrow, 1 (at feeder in bird sanctuary). TOTAL, 20 species; 930 individuals.—RICHARD S. PHILLIPS, RODNEY TAYLOR, DOUGLAS REES, COLLEEN VAN WORMER, SARA CALDWELL, DONNA JEAN GRENER.

HAMILTON, OHIO (Miami River, patches of woodland, meadows, and weedy fields).—Dec. 24; 8 A.M. to 4:30 P.M. Clear to partly cloudy in P.M.; wind light, S; ground covered with light snow; temp. 26° at start, 36° at return; visibility good. Total miles, 20 (about 8 on foot, 12 by car). Mallard, 1; red-shouldered hawk, 1; Cooper's hawk, 2; marsh hawk, 3; sparrow hawk, 6; mourning dove, 60; kingfisher, 3; flicker, 5; red-bellied woodpecker, 1; downy woodpecker, 11; horned lark, 15; blue jay, 7; crow, 24; chickadee, 20; tufted titmouse, 26; brown creeper, 5; Carolina wren, 3; bluebird, 14; bronzed grackle, 3; starling, 440; English sparrow, 384; cardinal, 16; goldfinch, 1; junco, 220; tree sparrow, 81; song sparrow, 32. TOTAL, 26 species; 1384 individuals.—FRANK HARBAUM.

LANCASTER, OHIO (observations within a radius of 5 miles of Lancaster, approximately same route as previous 20 years).—Dec. 24; 8 A.M. to 5 P.M. Heavily overcast; ground covered with about 6-in. snow (snow since December 12); streams frozen over; wind W, calm to very light; temp. 28° at start, 38° at return. Four observers together. Total hours afield, 23 (afoot); total party miles, 24 (afoot). Sparrow hawk, 2; bob-white, 34 (4 coveys); pheasant, 10; mourning dove, 2; barred owl, 2; flicker, 4; red-bellied woodpecker, 3; hairy woodpecker, 20; downy woodpecker, 51; blue jay, 32; crow, 3; Carolina chickadee, 50; tufted titmouse, 73; white-breasted nuthatch, 8; brown creeper, 3; Carolina wren, 6; robin, 8; bluebird, 17; starling, 134; meadowlark, 1; cardinal, 161; goldfinch, 9; slate-colored junco, 60; tree sparrow, 208; song sparrow, 208. TOTAL, 26 species; 1109 individuals.—LOUIS KITZ, CHAS. H. SHAW, PAUL J. MILLER, CHAS. R. GOSLIN.

OXFORD, OHIO (Miami University and Western College campuses, Four Mile Creek 2 miles north and 1 mile south of Oxford, 1 mile along Harker's Run and 1 mile along Bull Run above respective junctions with Four Mile Creek, 1½ miles along Indian Creek west-southwest of Oxford, areas of Paul Logan and Harold Brown farms, airport grounds, Hueston's woods; creek and brook margins 45%, mature woodland 20%, pastures and meadows 15%, roadsides 10%, university campus or urban areas 10%).—Dec. 26; 8 A.M. to 5:30 P.M. Clear; temp. 4° to 20°; wind NNW to W, about 7-14 m.p.h.; ground covered with thin layer of snow; streams with at least a thin sheet of ice. Twenty-one observers in 6 parties. Total party hours, 36 (34 on foot, 2 by car); total party miles, 58 (40 on foot, 18 by car). Cooper's hawk, 2; red-tailed hawk, 4; osprey, 1 (observed at a height of 2000 ft. flying south over Four Mile Creek—Mrs. R.A.H., W.H.G.); marsh hawk, 3; sparrow hawk, 7; bob-white, 16; killdeer, 1; rock dove, 102; mourning dove, 309; barred owl, 1; short-eared owl, 2; belted kingfisher, 2; flicker, 20; red-bellied woodpecker, 39; red-headed woodpecker, 1; hairy woodpecker, 19; downy woodpecker, 100; horned lark, 131; blue jay, 25; crow, 239; Carolina chickadee, 218; tufted titmouse, 164; white-breasted nuthatch, 18; red-breasted nuthatch, 4; brown creeper, 9; winter wren, 2; Carolina wren, 28; mockingbird, 3; blue-

bird, 16; golden-crowned kinglet, 1; cedar waxwing, 1; starling, 336; English sparrow, 624; rusty blackbird, 1 (observed at 20 ft. on ground—R.A.F.); cardinal, 160; purple finch, 2; goldfinch, 1; red-eyed towhee, 10; slate-colored junco, 439; tree sparrow, 201; swamp sparrow, 1; song sparrow, 116. TOTAL, 42 species; 3379 individuals. (Seen by Mrs. E. W. King in area on Dec. 26 and previously: yellow-bellied sapsucker, 1.)—R. A. HEFNER, Mrs. R. A. HEFNER, W. C. McNELLY, N. T. MATTOX, Mrs. W. H. GRAN, P. S. CROWELL, VIRGINIA STARK, PATRICIA IRVIN, CAROLYN HEFNER, Mrs. PAUL LOGAN, DAVID LOGAN, JOHN HEFNER, ROBERT HEFNER, JR., BARBARA DOAN, JOAN McNELLY, W. H. GRAN, MARCINE HEFNER, ANTOINETTE P. BOESEL, RICHARD DELP, Mrs. RICHARD DELP, M. W. BOESEL.

PORTSMOUTH, OHIO (along river banks, through old fields, along roadsides and in mixed forests of evergreen and deciduous trees).—Dec. 24; dawn to dark. Cloudy, with poor visibility; temp. at start 32°, rising slowly; ground partially covered with snow. Total miles, 37 (7 by foot, 30 by car). Mallard, 7; black duck, 22; Am. merganser, 41; Cooper's hawk, 2; red-tailed hawk, 1; rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 9; killdeer, 1; mourning dove, 8; belted kingfisher, 1; flicker, 2; red-bellied woodpecker, 2; red-headed woodpecker, 1; hairy woodpecker, 6; downy woodpecker, 11; horned lark, 4; blue jay, 4; crow, 360; Carolina chickadee, 27; tufted titmouse, 34; white-breasted nuthatch, 6; brown creeper, 2; winter wren, 1; Carolina wren, 11; hermit thrush, 1; bluebird, 8; golden-crowned kinglet, 5; starling, 225; English sparrow, 125; meadowlark, 3; cowbird, 8; cardinal, 41; goldfinch, 18; red-eyed towhee, 3; slate-colored junco, 145; tree sparrow, 35; song sparrow, 31. TOTAL, 38 species; 1213 individuals.—C. ROTH.

SALEM, OHIO (Middle Fork of Little Beaver Creek from New Albany to Millville, Franklin Square to Coleman, abandoned canal to Guilford Lake and half way around lake; area between Leetonia and Franklin Square; 2 hours in woods and fields 5 miles south from Columbiana; open farm and marsh land 25%, wooded valley 75%).—Dec. 25; 8 A.M. to 5 P.M. Drizzling rain; heavy fog restricting range of vision to 500 yards and much less at times; calm; temp. 30° to 32°; about 5 in. snow; lake ice covered, as well as creek except at ripples. Four observers working separately. Total hours, 17; total miles, 26. Black duck, 6; Cooper's hawk, 1; red-tailed hawk, 2; sparrow hawk, 4; ruffed grouse, 1; bob-white, 89 (6 coveys); pheasant, 6; barn owl, 1; barred owl 1; kingfisher, 2; red-bellied woodpecker, 11; red-headed woodpecker, 1; hairy woodpecker, 14; downy woodpecker, 32; blue jay, 25; crow, 15; black-capped chickadee, 32; titmouse, 67; white-breasted nuthatch, 36; brown creeper, 1; winter wren, 1; Carolina wren, 4; cedar waxwing, 1; starling, 17; English sparrow, 110; cardinal, 65; goldfinch, 1; towhee, 5; slate-colored junco, 28; tree sparrow, 122; field sparrow, 4; swamp sparrow, 4; song sparrow, 51. TOTAL, 33 species; 760 individuals.—CPL. WILLIAM C. BAKER, RAYMOND O. MARSHALL, ALBERT T. HARTLEY, PAUL A. STEWART.

STEUBENVILLE (JEFFERSON CO.), OHIO (Steubenville, Cross Creek, and Island Creek townships). Dec. 31; 9:30 A.M. to 5:15 P.M. Low fog; heavy drizzle in P.M.; temp. 38° at 9:30 A.M.; no wind; deep snow underfoot. Total miles, 10 (on foot). Ruffed grouse, 2; bob-white, 8; belted kingfisher, 1; hairy woodpecker, 1; downy woodpecker, 8; crow, 11; Carolina chickadee, 25; tufted titmouse, 17; Carolina wren, 3; golden-crowned kinglet, 3; European starling, 23; cardinal, 26; junco, 19; English sparrow, 30; tree sparrow, 17; song sparrow, 32. TOTAL, 16 species; 227 individuals.—CLINTON and RICHARD BANKS, ELMER LIVERGOOD, ALBERT TENNY, DON REARY, JAMES BATES, EDITH STINE, CLARICE and FOREST BUCHANAN.

SUGAR GROVE, OHIO (about 1000 acres in unglaciated Appalachian plateau, Hocking River and Clear Creek bottoms and adjacent uplands; open bottomlands 37%, mixed upland woodland 29%, hemlock woods 11%, old field-pine scrub 6%, mixed scrub 5%, village 5%, pine woods 4%, country estate 3%).—Dec. 30; dawn to dusk. Overcast, foggy; temp. 29° to 34°; calm; ground covered with 5-in. snow; snow and trees with thick coating of ice. Nineteen observers in 5 parties, these subdividing on occasion. Total hours, 79 (on foot); total miles, 73 (on foot). Mallard, 3; turkey vulture, 1; Cooper's hawk, 2; red-tailed hawk, 3; marsh hawk, 3; sparrow hawk, 1; ruffed grouse, 5; bob-white, 11; ring-necked pheasant, 1; mourning dove, 69; barn owl, 1; screech owl, 1; kingfisher, 1; flicker, 6; pileated woodpecker, 7; red-bellied woodpecker, 27; yellow-bellied sapsucker, 1; hairy woodpecker, 20; downy woodpecker, 115; horned lark, 6; blue jay, 27; crow, 1; Carolina chickadee, 161; tufted titmouse, 312; white-breasted nuthatch, 36; red-breasted nuthatch, 3; brown creeper, 26; winter wren, 10; Carolina wren, 54; robin, 8; hermit thrush, 4; bluebird, 29; golden-crowned kinglet, 19; migrant shrike, 2; starling, 216; myrtle warbler, 3; English sparrow, 810; meadowlark, 1; red-wing, 23; cardinal, 235; goldfinch, 174; crossbill (heard?), 1; towhee, 54; junco, 446; tree sparrow, 471; white-throated sparrow, 1; fox sparrow, 1; song sparrow, 302. TOTAL, 48 species; 3714 individuals.—J. B. CALHOUN, R. FLING, J. C. HARLOR, J. N. HOUGH, L. E. HICKS, A. E. HYDER, MR. and MRS. EARL IRICK, A. S. KIEFER, R. H. McCORMICK, J. W. PRICE, C. R. REESE, I. B. RICKLY, F. SCHOB, D. M. SMITH, E. S. THOMAS, C. F. WALKER, Mrs. FRANK WARNER, J. N. WOLFE (Wheaton Club, members and guests).

TOLEDO, OHIO (4 miles of Swan Creek Valley, 5 miles of Ottawa River Valley, Maumee River and Bay, Pearson Park, Cedar Point Marsh, and Erie Marsh, Mich. Latter marsh contains a large, flowing mineral spring. Open water 1%, cultivated fields 4%, cattail marsh 15%, deciduous forests 80%).—Dec. 24; dawn to dusk. Fair, A.M., cloudy, P.M.; snow from 4 P.M. on; temp. 28° to 30° F.; wind W, 1-8 m.p.h.; 8-in. snow; water frozen except spring and Maumee River for 6 miles from mouth. Fifteen observers in 6 parties. Total hours, 35; total miles, 63 (43 on foot, 20 by auto). Note somewhat different territory than in past Toledo censuses. Great blue heron, 1; black-crowned night heron, 1; Canada

goose, 8; mallard, 712; black duck, 111; baldpate, 1; pintail, 4; green-winged teal, 1; canvas-back, 2; greater scaup, 4 (L.W.C.—compared directly with canvas-back); Am. golden-eye, 2; Am. merganser, 82; Cooper's hawk, 9; red-tailed hawk, 1; red-shouldered hawk, 2; bald eagle, 1; marsh hawk, 10; sparrow hawk, 7; ring-necked pheasant, 376; coot, 16; herring gull, 226; ring-billed gull, 37; Bonaparte's gull, 70; mourning dove, 59; barn owl, 1; screech owl, 1; great horned owl, 1; flicker, 1; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 89; horned lark (subsp. ?), 32; blue jay, 48; crow, 58; black-capped chickadee, 63; tufted titmouse, 79; white-breasted nuthatch, 45; brown creeper, 27; winter wren, 13; Carolina wren, 8; robin, 12; hermit thrush, 1; golden-crowned kinglet, 49; ruby-crowned kinglet, 1 (J.N. and J.C.—compared directly with golden-crowns); cedar waxwing, 5; starling, 246; English sparrow, 380; meadowlark, 1; red-wing, 12; cowbird 75 (M.S.—seen at 40 ft.); cardinal, 190; purple finch, 26; pine siskin, 7; goldfinch, 73; red crossbill, 1; towhee, 3; slate-colored junco, 242; tree sparrow, 898; field sparrow, 2 (H.M., B.B. and J.C.Jr.); swamp sparrow, 29; song sparrow, 174. TOTAL, 61 species; 4579 individuals. (Seen on same day but outside census area: rough-legged hawk, 1). Note absence of bob-whites for first time on count.—JAMES NESSLE, MORRISON R. VAN CLEVE, J. C. COLLINS, LAVON BIBLE, GURDON TARBOX, FRED FLICKINGER, LAWRENCE HIETT, JOHN GIESEY, TOM SIMONS, HAROLD MAYFIELD, JOE COLLINS, JR., BOB BERGMAN, MAX SHEPHERST, ANDY KONDI, HERB DEHRING, LAUREL VAN CAMP, LOUIS W. CAMPBELL (Toledo Naturalists' Assn.).

YOUNGSTOWN, OHIO (Meander Lake Conservation area, Mill Creek Park and Mill Creek Valley south to North Lima Road, Yellow Creek, Poland to Woodworth and vicinity Pine Lake same area covered since 1933; open farmland 60%, wooded areas 30%, cattail marsh 10%).—Dec. 24; 8 A.M. to 5 P.M. Fair; temp. 25° to 36° F.; practically no wind; deep snow everywhere; all lakes frozen solid, no open water whatever. Fourteen observers in 6 parties. Total hours, 40; total party miles afoot, 47. Mallard, 75; black duck, 600 (est.); pintail, 1; goshawk, 1; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; rough-legged hawk, 1; bald eagle, 1; marsh hawk, 3; sparrow hawk, 4; bob-white, 108; ring-necked pheasant, 35; mourning dove, 77; screech owl, 2; barred owl, 4; flicker, 2; pileated woodpecker, 1; red-bellied woodpecker, 10; red-headed woodpecker, 2; hairy woodpecker, 11; downy woodpecker, 53; northern horned lark, 30; prairie horned lark, 21; blue jay, 56; crow, 556; black-capped chickadee, 76; tufted titmouse, 120; white-breasted nuthatch, 85; red-breasted nuthatch, 1; brown creeper, 2; golden-crowned kinglet, 5; ruby-crowned kinglet, 2 (at 10 ft. by Dressel); cedar waxwing, 1; starling, 74; English sparrow, 172; cardinal, 109; goldfinch, 3; towhee, 10; slate-colored junco, 84; tree sparrow, 389; song sparrow, 27; snow bunting, 52. TOTAL, 43 species; about 2871 individuals.—RAYMOND O. MARSHALL, ALBERT T. HARTLEY, PAUL STEWART, FRANK FERRIS, EDITH

MURRAY, ELIZABETH NORTHROP, ERNEST VICKERS, EVAN DRESSEL, GEORGE MADITES, HOWARD HEIMERDINGER, HOWARD O. HEIMERDINGER, EDWARD MINICH, FLOYD MERTZ, GRANT M. COOK.

CHARLESTON, W. VA. (bordering McCorkle Avenue, Kanawha City Land Co., Porter's Hollow, Davis Creek at mouth and bordering State Route 13, Crescent Road; open farmland and grassland 30%, deciduous woodland 60%, pine woodland 5%, wooded swamp 5%).—Dec. 31; dawn (8:30 A.M.) to 8 P.M. Overcast with continuous rain and heavy fog; temp. 46° to 50°; wind calm to NE, 4 m.p.h.; ground bare, water-soaked; water open. Eight observers in 7 parties. Total hours, 15 (on foot); total miles, 17 (on foot). Sparrow hawk, 2; ruffed grouse, 1; bob-white, 15; screech owl, 1; red-headed woodpecker, 4; yellow-bellied sapsucker, 1; downy woodpecker, 13; blue jay, 6; crow, 3; Carolina chickadee, 60; tufted titmouse, 51; white-breasted nuthatch, 5; brown creeper, 2; Carolina wren, 18; mockingbird, 3; robin, 4; bluebird, 1; golden-crowned kinglet, 20; cedar waxwing, 4; starling, 30; English sparrow, 219; meadowlark, 2; cardinal, 40; purple finch, 1 (W.R.D.); goldfinch, 40; towhee, 18; slate-colored junco, 95; tree sparrow, 7; field sparrow, 2; white-throated sparrow, 17; song sparrow, 47. TOTAL, 31 species; 732 individuals.—J. W. HANDLAN, W. R. DEGARMO, SARAH BARBER, LUCY BARBER, SYBIL BALL, ELEANOR SIMMS, MRS. ROBERT D. KETCHUM, MRS. JOHN T. COLLINS.

HUNTINGTON, W. VA. (same area as in 1940 and subsequent counts; Ohio River bank 20%, pastures and meadows 40%, open woods and thickets 40%).—Dec. 29; dawn to dusk. Overcast in A.M., light rain in P.M.; temp. 22° to 34°; wind W, 1-7 m.p.h. Eleven observers in 4 parties. Total hours, 18 (17 on foot, 1 in car); total miles, 28 (16 on foot, 12 in car). Black duck, 3; buffle-head, 1; sparrow hawk, 4; bob-white, 12; killdeer, 15; herring gull, 1; flicker, 2; yellow-bellied sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 16; phoebe, 1; blue jay, 36; crow, 190; Carolina chickadee, 120; titmouse, 30; white-breasted nuthatch, 4; brown creeper, 1; winter wren, 2; Carolina wren, 11; mockingbird, 6; robin, 5; bluebird, 18; golden-crowned kinglet, 13; cedar waxwing, 3; starling, 44; myrtle warbler, 4; English sparrow, 40; meadowlark, 40; cardinal, 72; goldfinch, 149; towhee, 23; slate-colored junco, 136; tree sparrow, 29; field sparrow, 15; white-throated sparrow, 8; fox sparrow, 6; song sparrow, 31. TOTAL, 37 species; 1094 individuals. (One great blue heron found shot along Ohio River on Dec. 24.)—MR. and MRS. W. H. ODELL, MR. and MRS. H. C. HALE, MRS. H. A. RESENER, MRS. JUNE BAKER, MRS. C. S. WAGERS, VIRGINIA CAVENDISH, RACHEL WILSON, JAMES N. and BAYARD GREEN (Huntington Bird Study Club).

MORGANTOWN, W. VA. (Suncrest Addition to Cheat Lake, 7 miles north, with side trips; terrain mostly open farmland, with an occasional small deciduous woodland).—Dec. 31: 8:30 A.M. to 4:30 P.M. Low-hung clouds and heavy fog; cold rain in P.M.; temp. 40° in early A.M., to 35° in late P.M. Four observers together. Total hours, 8; total miles,

25 (20 by car, 5 on foot). Bob-white, 17; flicker, 11 (unusual); red-bellied woodpecker, 2; hairy woodpecker, 3; downy woodpecker, 5; blue jay, 18; chickadee, 14; tufted titmouse, 18; Carolina wren, 19; bluebird, 3; mockingbird, 1; starling, 59; English sparrow, 234; cardinal, 22; goldfinch, 2; towhee, 2; junco, 31; tree sparrow, 133; song sparrow, 21. TOTAL, 19 species; 615 individuals. (Poorest results in several years, due to extremely foggy day.)—ABE and DOROTHY MARGOLIN, C. K. PECK, I. B. BOGGS.

MT. LOOKOUT (NICHOLAS CO.), W. VA. (same area as in 1941 and subsequent counts; deciduous and hemlock woodland 74%, pine grove 1%, farmland 25%).—Dec. 29. Cloudy; temp. 26° to 38°; wind S, 7-24 m.p.h.; much snow in woods. Two observers, separate in A.M., together in P.M. Total hours, 16 (on foot); total miles, 17 (on foot). Ruffed grouse, 7; bob-white, 10; flicker, 16; pileated woodpecker, 3; red-bellied woodpecker, 2; red-headed woodpecker, 11; yellow-bellied sapsucker, 2; hairy woodpecker, 1; downy woodpecker, 9; blue jay, 16; crow, 32; chickadee, 5; tufted titmouse, 22; white-breasted nuthatch, 4; Carolina wren, 7; mockingbird, 2; robin, 205; hermit thrush, 2; bluebird, 8; cedar waxwing, 15; starling, 6; English sparrow, 50; cardinal, 30; goldfinch, 3; towhee, 40; junco, 224; tree sparrow, 20; field sparrow, 1; white-throated sparrow, 20; song sparrow, 13. TOTAL, 30 species; 786 individuals. (Dec. 24: red-shouldered hawk, 1; purple finch, 3; horned lark, 20; Dec. 25 and 28: horned owl, 2.)—W. C. LEGG, ALTON McCLUNG.

OHIO COUNTY, W. VA. (immediate vicinity north of Fulton, Pleasant Valley along Big Wheeling Creek to Wheeling Park, area northwest of Bethlehem, Oglebay Park; meadows 60%, thin deciduous woods 25%, thick deciduous woods 20%, stream 5%).—Dec. 24. Overcast; light rain in late P.M.; temp. 35°; 7-9-in. snow on ground. Total hours, 15; total miles, 14. Ring-necked pheasant, 1; rock dove, 5; belted kingfisher, 1; pileated woodpecker, 1; hairy woodpecker, 5; downy woodpecker, 23; crow, 359; Carolina chickadee, 72; tufted titmouse, 73; white-breasted nuthatch, 3; brown creeper, 4; Carolina wren, 25; bluebird, 2; golden-crowned kinglet, 6; starling, 24; English sparrow, 100; cardinal, 60; goldfinch, 2; towhee, 8; slate-colored junco, 56; tree sparrow, 20; song sparrow, 64. TOTAL, 22 species; 914 individuals.—CARYLON CONRAD, GEORGE BREIDING, RHYS RITTER, WILLIAM WYLLIE.

BOWLING GREEN, KY. (Chaney, McElroy, Albert Covington farms; along Gasper and Barren rivers; wooded stream banks 30%, open woods 30%, pastures and cultivated fields 40%).—Dec. 24. Cloudy all day, mist and rain in late P.M.; no wind; ground bare except for a few snowbanks; still places in streams frozen over. Five observers in 2 parties. Total hours, 17 (on foot); total miles, 14. Mallard, 214; red-shouldered hawk, 1 (found caught in trap); sparrow hawk, 5; bob-white, 1; rock dove, 10; mourning dove, 160; barred owl, 1; flicker, 36; pileated woodpecker, 11; red-bellied

woodpecker, 15; red-headed woodpecker, 1; yellow-bellied sapsucker, 1; hairy woodpecker, 9; downy woodpecker, 31; prairie horned lark, 184; blue jay, 48; crow, 5000 (many seen coming from large roost); Carolina chickadee, 78; tufted titmouse, 62; white-breasted nuthatch, 2; brown creeper, 4; Carolina wren, 36; mockingbird, 16; robin, 3; hermit thrush, 8; bluebird, 28; golden-crowned kinglet, 5; cedar waxwing, 15; starling, 280; myrtle warbler, 11; English sparrow, 65; meadowlark, 13; rusty blackbird, 1; bronzed grackle, 1; cardinal, 116; purple finch, 1; goldfinch, 60; towhee, 43; savannah sparrow, 5; slate-colored junco, 190; tree sparrow, 7; field sparrow, 35; white-crowned sparrow, 109; white-throated sparrow, 89; swamp sparrow, 4; song sparrow, 28. TOTAL, 46 species; 7043 individuals.—B. C. COLE, L. Y. LANCASTER, CHARLES L. TAYLOR, J. R. WHITMER, GORDON WILSON (Western Kentucky State Teachers College).

LOUISVILLE, KY. (same territory as in previous years; deciduous woodland 35%, open farmlands 30%, city parks and residential areas 20%, Ohio River 15%).—Dec. 31. Dawn to dusk. Dark, misty, continuous rain; visibility often very poor; temp. 36° to 35°; wind 2-6 m.p.h.; creeks frozen, Ohio River open. Fourteen observers in 5 parties. Total hours, 29 (23 on foot, 6 by car); total miles, 39 (20 on foot, 19 by car). Double-crested cormorant, 1; great blue heron, 1; black duck, 20; lesser scaup, 6; red-shouldered hawk, 1; marsh hawk, 2; sparrow hawk, 6; bob-white, 10 (2 coveys); killdeer, 2; herring gull, 53; ring-billed gull, 6; rock dove, 25; mourning dove, 10; barred owl, 1; belted kingfisher, 2; flicker, 3; red-bellied woodpecker, 3; red-headed woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 16; horned lark, 49; blue jay, 41; crow, 96; Carolina chickadee, 7; tufted titmouse, 50; white-breasted nuthatch, 2; brown creeper, 1; Carolina wren, 6; mockingbird, 18; bluebird, 11; golden-crowned kinglet, 2; migrant shrike, 1; starling, 6000 (est. roost on city bldgs.); English sparrow, 200; cardinal, 265; goldfinch, 10; red-eyed towhee, 40; slate-colored junco, 320; tree sparrow, 28; chipping sparrow, 3 (white line over eye clearly seen—E.M.); field sparrow, 10; white-crowned sparrow, 4; white-throated sparrow, 3; fox sparrow, 2; Lincoln's sparrow, 4 (buffy breast band and bluish bill observed with 7x glasses—E.M., E.S.); song sparrow, 34. TOTAL, 46 species; about 7377 individuals. (Dec. 24: red-tailed hawk, 1; Cooper's hawk, 1.)—LEONARD BRECHER, FLOYD CARPENTER, WARREN DENNIS, CALDWELL DUGAN, THELMA GENTRY, HARVEY LOVELL, ESTHER MASON, LOUIS AND MARIE PIEPER, EVELYN SCHNEIDER, FRED AND ANN STAMM, S. C. THACHER, MRS. S. C. THACHER (Beckham Chapter, Kentucky Ornithological Society).

ELIZABETHTON, TENN. (Watauga and Doe rivers, foot of Holston Mountain, Lynn Mountain, golf course, fields and woodland in vicinity).—Dec. 24; 8:15 A.M. to 5:45 P.M. Cloudy; no wind; temp. 40° to 55°. Nine observers in 6 parties. Total hours afield, 29 (on foot); total party miles, 25 (on foot). Mallard, 6; hooded merganser, 3; Cooper's hawk, 1; sparrow hawk, 1; bob-white, 36; mourning dove,

32; kingfisher, 1; flicker, 23; pileated woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 16; phoebe, 1; blue jay, 31; crow, 122; Carolina chickadee, 60; tufted titmouse, 35; brown creeper, 1; Carolina wren, 42; mockingbird, 5; robin, 14; bluebird, 33; golden-crowned kinglet, 10; ruby-crowned kinglet, 4; cedar waxwing, 65; migrant shrike, 1; starling, 2555 (est.); myrtle warbler, 78; English sparrow, 98; meadowlark, 2; grackle, 24; cardinal, 83; goldfinch, 73; towhee, 3; slate-colored junco, 78; field sparrow, 38; white-crowned sparrow, 8; white-throated sparrow, 27; swamp sparrow, 1; song sparrow, 44. TOTAL, 39 species; about 3658 individuals.—Mr. and Mrs. FRED BEHREND, J. C. BROWNING, DR. and MRS. HUGO DOOB, JR., DR. and MRS. LEE R. HERNDON and LEE ROY HERNDON, JR., W. F. PEARSON.

GREAT SMOKY MOUNTAINS NATIONAL PARK, TENN. (same area as in past 7 years; circle of $7\frac{1}{2}$ -mile radius centering on Bull Head of Mt. LeConte, including a section of the Tennessee-North Carolina divide from Indian Gap to Sweat-heifer Trail; towns of Gatlinburg and Pigeon Forge; spruce-fir forests 30%, stream courses 25%, deciduous forests 5%, abandoned fields 15%, open farmland 15%, towns and suburbs 5%, pine forests 5%).—Dec. 17. Fair; temp. 22° to 58° F.; wind variable, 1-7 m.p.h.; ground mostly bare in the lowlands, 12 in. snow in the high mountains, snowdrifts 2 and 3 feet deep on some trails; streams open in lowlands, frozen over in mountains. Altitude range 1200 to 6900 feet. Seventeen observers in 6 parties. Total hours afield, 29; total miles (on foot), 23. Cooper's hawk, 2; sparrow hawk, 3; ruffed grouse, 1; red phalarope, 1; mourning dove, 18; kingfisher, 1; flicker, 3; pileated woodpecker, 4; red-bellied woodpecker, 1; yellow-bellied sapsucker, 1; downy woodpecker, 14; phoebe, 2; prairie horned lark, 5; blue jay, 7; raven, 6; crow, 261 (est.); chickadee (both black-capped and Carolina observed), 97; tufted titmouse, 4; white-breasted nuthatch, 1; red-breasted nuthatch, 2; winter wren, 6; Carolina wren, 16; mockingbird, 5; robin, 25; hermit thrush, 4; bluebird, 32; golden-crowned kinglet, 13; ruby-crowned kinglet, 2; migrant shrike, 1; starling, 79; English sparrow, 119 (est.); myrtle warbler, 15; meadowlark, 34 (flock); purple grackle, 5; cardinal, 73; purple finch, 4; pine siskin, 96 (3 flocks); goldfinch, 103; savannah sparrow, 2; junco (both slate-colored and Carolina), 53; field sparrow, 24; white-throated sparrow, 15; swamp sparrow, 1; song sparrow, 74. TOTAL, 46 species and subspecies; approximately 1235 individuals. (Fox sparrow and bob-white both found Dec. 15 near Gatlinburg.) Prairie horned lark recorded for first time on Christmas count. The red phalarope was found dead in the road near Little Pigeon River at Park Headquarters building. The bird was first measured then a study skin was made. It will be given to Arthur Stupka, Park Naturalist, Gatlinburg, Tenn.—WEST BARBER, HARVEY BROOME, MR. and MRS. ROBERT DUNBAR, MRS. MURIEL HILL, W. M. JOHNSON, BOB JOHNSON, JIM JOHNSON, MRS. FRANK LEONHARD, DR. and MRS. HENRY MEYER, ELISE

MORRELL, MRS. W. M. WALKER, W. M. WALKER (compiler), MARY WILLIAMS, DR. DOROTHY E. WILLIAMS (members and guests of Knoxville Chapter, Tennessee Ornithological Society), MARY RUTH CHILES (National Park Service).

MEMPHIS, TENN. (same area as in previous years; city suburbs 10%, open pastureland 15%, deciduous woodlots 40%, edges of bottomlands 25% and river 10%).—Dec. 31; dawn to dusk. Heavy, low-hanging clouds; steady rain; poor visibility; temp. 52° to 40° ; wind NW in P.M., 8-12 m.p.h.; riverbottoms and lowlands flooded; water standing in open fields. Seventeen observers in 6 parties. Total party hours, 38; total miles, 79 (18 on foot, 55 by car, 6 by boat). Great blue heron, 1; Canada goose, 50; mallard, 350; green-winged teal, 10; lesser scaup, 3; red-breasted merganser, 1; Cooper's hawk, 1; red-tailed hawk, 5; red-shouldered hawk, 1; marsh hawk, 3; sparrow hawk, 11; hawk (sp.), 1; bob-white, 38; killdeer, 37; Wilson's snipe, 1; herring gull, 1; ring-billed gull, 1; mourning dove, 10; barred owl, 1; flicker, 48; pileated woodpecker, 1; red-bellied woodpecker, 14; red-headed woodpecker, 21; yellow-bellied sapsucker, 3; hairy woodpecker, 4; downy woodpecker, 2; phoebe, 1; blue jay, 252; crow, 25; Carolina chickadee, 29; tufted titmouse, 7; brown creeper, 3; winter wren, 2; Carolina wren, 11; mockingbird, 48; brown thrasher, 9; robin, 116; hermit thrush, 3; bluebird, 18; golden-crowned kinglet, 21; ruby-crowned kinglet, 3; cedar waxwing, 8; migrant shrike, 18; starling, 787; myrtle warbler, 35; English sparrow, 79; meadowlark, 187; red-wing, 35; rusty blackbird, 210; bronzed grackle, 884; cowbird, 50; cardinal, 129; goldfinch, 6; towhee, 11; savannah sparrow, 15; vesper sparrow, 9; slate-colored junco, 452; tree sparrow, 2; field sparrow, 79; white-crowned sparrow, 11; white-throated sparrow, 393; fox sparrow, 16; Lincoln's sparrow, 1; swamp sparrow, 49; song sparrow, 94. TOTAL, 64 species; 4727 individuals. (Seen flying across Mississippi River to roost 1,000,000 blackbirds by Lt. (j.g.) Schwartz).—CLARENCE E. MOORE, PATRICIA MOORE, KENNETH MOORE, MRS. IRENE R. DANIEL, MRS. M. L. TORTI, MAURICE TORTI, JR., LAWRENCE KENT, LUTHER O. KEETON, MRS. FLOY BAREFIELD, ALICE SMITH, JOE MOUNT, HERBERT SHAPIRO, SGT. and MRS. J. SOUTHGATE, Y. HOYT, PAULINE JAMES, LT. (j.g.) MERRILL SCHWARTZ, LINCOLN EMERY.

NASHVILLE, TENN. (Overton Hills forest, Radnor 75-acre lake, Glendale, Lealand, Hobbs to Tyne roads, Percy Warner park, Bellemeade, Hillwood, Bosley Spring, Nine-mile Hill, and Cumberland River bottoms at tip of Bells Bend; open farmlands 28%, town suburbs 5%, wooded pastures 25%, wooded hills 25%, river bank 5%, lake and shore 12% of time consumed).—Dec. 24. Visibility poor, foggy in A.M., drizzling rain in P.M.; little or no wind; temp. 38° to 47° ; ground bare and very wet. Birds fairly active following snow. Thirteen observers in 5 parties. Total party hours, $37\frac{1}{2}$ (man hours $87\frac{1}{2}$). Great blue heron, 2; mallard, 45; black duck, 15; gadwall, 5; ring-necked duck, 1; lesser scaup, 5; baldpate, 1; ducks (unidentified),

18; black vulture, 35; turkey vulture, 1; Cooper's hawk, 1; red-tailed hawk, 5; red-shouldered hawk, 1; sparrow hawk, 14; bob-white, 27 (at 6 places); coot, 2; killdeer, 23; Wilson's snipe, 1; mourning dove, 16; screech owl, 2; great horned owl, 2; barred owl, 4; belted kingfisher, 2; flicker, 19; pileated woodpecker, 10; red-bellied woodpecker, 25; yellow-bellied sapsucker, 10; hairy woodpecker, 7; downy woodpecker, 46; blue jay, 22; horned lark, 180 (at 7 places); crow, 53; Carolina chickadee, 110; tufted titmouse, 73; white-breasted nuthatch, 3; brown creeper, 5; Bewick's wren, 4; Carolina wren, 49; mockingbird, 47; robin, 5; hermit thrush, 4; bluebird, 95; golden-crowned kinglet, 10; ruby-crowned kinglet, 1 (Forbes); cedar waxwing, 4; migrant shrike, 3; starling, 1690 (1500 in 1 flock); myrtle warbler, 29; English sparrow, 130; meadowlark, 23; red-wing, 1 (Simpson); rusty blackbird, 2; cowbird, 23; cardinal, 212; goldfinch, 40; red-eyed towhee, 65; slate-colored junco, 190; chipping sparrow, 1 (Hawkins); field sparrow, 92; white-crowned sparrow, 29; white-throated sparrow, 54; swamp sparrow, 6; song sparrow, 108. TOTAL, 63 species; about 3708 individuals. (On Dec. 26, gulls came up the river, almost certainly herring gulls.)—B. H. ABERNATHY, SGT. JOHN R. FORBES, ALBERT F. GANIER (compiler), ROBT. M. HAWKINS, ROBT. HICKERSON, AMELIA R. LASKEY, G. R. MAYFIELD, DONALD MAYNARD, J. A. ROBINS, WM. SIMPSON, W. R. SPOFFORD, LUTIRELL THOMAS, H. S. VAUGHN (Nashville Chapter, Tenn. Ornithological Society).

BIRMINGHAM, ALA. (Edgewood Lake, Lake Purdy, Oak Mountain State Park; center of area approximately same as previous year; mixed hardwood and pines 75%, fields and pastures 10%, lake shores 15%).—Dec. 31. Heavily overcast, with rain in P.M.; temp. 50° to 65°; wind sw, 0-20 m.p.h.; ground bare. Five observers in 3 parties. Total hours, 15; total miles, 20. Horned grebe, 1; pied-billed grebe, 12; great blue heron, 1; mallard, 8; black duck, 2; baldpate, 1; pintail, 25; redhead, 1; ring-necked duck, 31; canvas-back, 6; lesser scaup, 60; buffle-head, 3; ruddy duck, 90; Am. merganser, 1; turkey vulture, 6; black vulture, 2; Cooper's hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 6; coot, 2000; killdeer, 50; mourning dove, 8; belted kingfisher, 6; flicker, 10; pileated woodpecker, 5; red-bellied woodpecker, 11; red-headed woodpecker, 3; hairy woodpecker, 12; downy woodpecker, 12; red-cockaded woodpecker, 2; phoebe, 3; blue jay, 28; crow, 14; Carolina chickadee, 22; tufted titmouse, 46; white-breasted nuthatch, 7; red-breasted nuthatch, 3; brown creeper, 1; winter wren, 3; Bewick's wren, 1; Carolina wren, 32; mockingbird, 6; brown thrasher, 4; robin, 33; hermit thrush, 4; bluebird, 20; golden-crowned kinglet, 28; ruby-crowned kinglet, 14; cedar waxwing, 8; loggerhead shrike, 3; myrtle warbler, 3; pine warbler, 6; English sparrow, 29; eastern meadowlark, 62; red-wing, 36; bronzed grackle, 16; cardinal, 41; purple finch, 1; goldfinch, 45; red-eyed towhee, 66; savannah sparrow, 5; slate-colored junco, 85; chipping sparrow, 17; field sparrow, 31; white-throated sparrow, 121; fox sparrow, 9; swamp

sparrow, 25; song sparrow, 33. TOTAL, 69 species; 3289 individuals.—M. F. PRATHER, MORTON PERRY, W. H. CARUTHERS, BERNARD CLOWDUS, BILL WALKER.

MOBILE, ALA. (Oak Hill golf course, Three-Mile Creek, Crichton, Spring Hill, and return via Westwood; deciduous woods 30%, golf course 25%, suburbs 15%, open swamp 15%, pine woods 15%).—Dec. 24; 8 A.M. to 5 P.M. Partly cloudy with heavy fog until noon; light w wind; temp. 50° to 71°. Total hours, 9; total miles, 22 (20 on foot, 2 by bus). Black vulture, 27; Cooper's hawk, 1; red-tailed hawk, 1; marsh hawk, 2; sparrow hawk, 1; bob-white, 7 (covey); killdeer, 39; mourning dove, 9; kingfisher, 2; flicker, 7; red-bellied woodpecker, 1; yellow-bellied sapsucker, 1; phoebe, 3; tree swallow, 1; blue jay, 18; crow, 25; tufted titmouse, 6; brown-headed nuthatch, 1; brown creeper, 3; house wren, 9; winter wren, 1; Carolina wren, 6; mockingbird, 25; brown thrasher, 8; robin, 12; hermit thrush, 1; bluebird, 17; golden-crowned kinglet, 31; ruby-crowned kinglet, 31; cedar waxwing, 1; loggerhead shrike, 4; starling, 2; white-eyed vireo, 1; orange-crowned warbler, 3; myrtle warbler, 64; pine warbler, 6; yellow-throat, 1; English sparrow, 2; meadowlark, 14; red-wing, 30; rusty blackbird, 100 (est.); cowbird, 1000 (est.); cardinal, 19; goldfinch, 3; towhee, 5; savannah sparrow, 7; field sparrow, 1; white-throated sparrow, 305. TOTAL, 48 species; about 1864 individuals.—W. W. FRECH.

PRATTVILLE, ALA. (Autauga Creek to Alabama River, 7½ miles, and return to Prattville along country roads, streams and hedgerows; woody and swampy streambanks 50%, cultivated fields 10%, broom sedge fields 10%, pastures 30%).—Dec. 28; dawn to dusk. Overcast, with light rain in A.M., clearing in P.M.; temp. 40° to 56°; wind w, 0-10 m.p.h. Usually 2 parties of 2 afoot all day, 3 in car. Total miles, 25 (10 afoot, 15 by car). Pied-billed grebe, 1; Canada goose, 16; black duck, 2; turkey vulture, 4; black vulture, 28; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 1; killdeer, 2; mourning dove, 4; flicker, 12; red-bellied woodpecker, 2; yellow-bellied sapsucker, 2; downy woodpecker, 5; phoebe, 3; blue jay, 40; crow, 5; Carolina chickadee, 2; tufted titmouse, 1; red-breasted nuthatch, 3; house wren, 1; winter wren, 2; Carolina wren, 8; mockingbird, 26; brown thrasher, 17; bluebird, 21; ruby-crowned kinglet, 5; loggerhead shrike, 25; starling, 4; pine warbler, 6; English sparrow, 27; meadowlark, 23; red-wing, 47; rusty blackbird, 215; cowbird, 22; cardinal, 60; towhee, 27; vesper sparrow, 16; field sparrow, 19; white-throated sparrow, 7; swamp sparrow, 8. TOTAL, 41 species; 716 individuals. (Seen in area Dec. 26: belted kingfisher, 1; Dec. 30: golden-crowned kinglet, 3.)—LT. RALPH P. MONELL; BILL, BOB, and HELEN MONELL; REV. and MRS. W. B. CLEMMONS; ANNE, MARTHA, and BILL CLEMMONS, JR.

TUSCALOOSA, ALA. (south bank of the Black Warrior River and neighboring open wooded areas from the Gulf States Paper Co. almost to the city, a distance of about 5 miles, the University of

Alabama campus, playing fields south of the campus, Forest Lake; mixed hardwoods and pine 25%, pine woods 50%, open land about 25%.—Dec. 23; 7:30 A.M. to 5 P.M. Cloudy all day, foggy in A.M. with fog lifting about noon; temp. 35° to 45°; no wind in A.M., slight N wind in P.M. Two observers together. Total miles, 11 (5 by car). Pied-billed grebe, 1; baldpate, 1; lesser scaup, 1; sparrow hawk, 1; coot, 4; killdeer, 23; Bonaparte's gull, 1; mourning dove, 13; flicker, 7; red-bellied woodpecker, 2; red-headed woodpecker, 1; yellow-bellied sapsucker, 2; downy woodpecker, 3; blue jay, 50; crow, 5; Carolina chickadee, 5; tufted titmouse, 1; brown creeper, 1; Carolina wren, 12; mockingbird, 8; brown thrasher, 3; hermit thrush, 4; bluebird, 14; golden-crowned kinglet, 130; ruby-crowned kinglet, 25; loggerhead shrike, 2; starling, 39; myrtle warbler, 26; pine warbler, 12; palm warbler, 20; English sparrow, 35; meadowlark, 10; cardinal, 37; goldfinch, 17; red-eyed towhee, 4; field sparrow, 20; white-throated sparrow, 40. TOTAL, 37 species; 580 individuals.—SAMUEL R. TUPTON, ISABEL H. TIPTON.

WHEELER NATIONAL WILDLIFE REFUGE, DECATUR, ALA. (refuge and vicinity around the Tennessee River; shoreline 50%, fields 25%, woods 25%)—Dec. 30; 6:30 A.M. to 6:30 P.M. Fog, mist, and rain in A.M., cloudy in P.M.; no wind. Observers separate. Total miles, 77 (20 on foot, 26 by motor boat, 31 by car); total party hours, 21. Pied-billed grebe, 2; double-crested cormorant, 5; great blue heron, 26; Canada geese, 171; mallard, 3507; black duck, 540; gadwall, 300; wood duck, 18; ring-necked duck, 2; canvas-back, 2; buffle-head, 3; ruddy duck, 3; hooded merganser, 7; Am. merganser, 2; turkey vulture, 3; red-tailed hawk, 2; red-shouldered hawk, 7; marsh hawk, 9; osprey, 2; duck hawk, 1; sparrow hawk, 1; coot, 1; killdeer, 2; herring gull, 4; ring-billed gull, 1; mourning dove, 106; barred owl, 3; belted kingfisher, 2; flicker, 8; pileated woodpecker, 3; red-bellied woodpecker, 11; red-headed woodpecker, 3; yellow-bellied sapsucker, 1; hairy woodpecker, 1; downy woodpecker, 3; horned lark, 22; blue jay, 38; crow, 62; Carolina chickadee, 9; tufted titmouse, 5; brown creeper, 3; winter wren, 1; Bewick's wren, 1; Carolina wren, 16; mockingbird, 20; brown thrasher, 5; robin, 3; bluebird, 16; ruby-crowned kinglet, 2; cedar waxwing, 1; shrike, 2; starling, 60; myrtle warbler, 2; palm warbler, 1; English sparrow, 54; meadowlark, 11; red-wing, 5; purple grackle, 35; cardinal, 20; purple finch, 5; goldfinch, 34; towhee, 43; savannah sparrow, 1; vesper sparrow, 3; junco, 10; field sparrow, 159; white-throated sparrow, 92; fox sparrow, 5; swamp sparrow, 39; song sparrow, 12. TOTAL, 70 species; about 5559 individuals. (Dec. 27: old-squaw, 1 (J.H.S.); pintail, 50; baldpate, 42; Dec. 31: lesser scaup, 1; quail, 30; cowbird, 35; Cooper's hawk, 1.)—CHESTER R. MARKLEY, HENRY H. GRAMMER, JOHN H. STEENIS.

MOSELLE, MISS. (fields and woods along Leaf River as far as 5 miles west and northwest of Moselle, pine hill country as far as 6 miles east of Moselle).—Dec. 24; 7:30 A.M. to 5 P.M. Heavy fog

until noon, cloudy in P.M. with gentle wind; temp. 46° at start, 72° at return. Two observers together. Total hours, 9 (4 on foot, 5 by car); total miles, 36 (6 on foot, 30 by car). Turkey vulture, 87; black vulture, 26; sparrow hawk, 1; red-tailed hawk, 2; killdeer, 3; mourning dove, 39; kingfisher, 2; flicker, 10; red-bellied woodpecker, 9; pileated woodpecker, 1; downy woodpecker, 1; phoebe, 6; blue jay, 28; crow, 8; Carolina chickadee, 27; titmouse, 21; brown creeper, 1; winter wren, 3; Carolina wren, 3; mockingbird, 19; catbird, 1; brown thrasher, 4; robin, 74; bluebird, 76; cedar waxwing, 95; loggerhead shrike, 30; pine warbler, 40; English sparrow, 25; meadowlark, 115; cardinal, 46; towhee, 20; slate-colored junco, 25; white-crowned sparrow, 12; savannah sparrow, 25; swamp sparrow, 15; chipping sparrow, 52; song sparrow, 10; field sparrow, 115; white-throated sparrow, 87; sparrow (sp.?), 15. TOTAL, 39 species; 1179 individuals.—MARIE GRAYSON, MARJORIE HAZEN.

ANN ARBOR, MICH. (Huron River valley and adjoining areas from 4 miles northwest of town to 5 miles southeast of town; open farm and wasteland 40%, deciduous woodland 30%, bushy areas 25%, coniferous groves 3%, marsh 2%)—Dec. 27; 8:45 A.M. to 5:45 P.M. Cloudy, light snowfall after 11 A.M.; temp. 10° to 18°; wind NW, 1-7 m.p.h.; 9 in. snow, river 4/5 frozen over. First two observers together on foot until 2:30, then joined by other 4, who were traveling on foot and in car. Total hours, 15½ (14 on foot, 1½ in car); total miles, 30 (18 on foot, 12 in car). Mallard, 30; black duck, 230; ring-necked duck, 2; (seen at 150 yds. with 8x glasses—Wilcox); Am. merganser, 10; pheasant, 13; herring gull, 1; mourning dove, 1; belted kingfisher, 1; flicker, 1; hairy woodpecker, 2; downy woodpecker, 21; blue jay, 8; crow, 4; black-capped chickadee, 21; tufted titmouse, 29; white-breasted nuthatch, 26; brown creeper, 1; robin, 2; bluebird, 2; starling, 2; English sparrow, 35; cardinal, 34; goldfinch, 17; slate-colored junco, 20; tree sparrow, 75; song sparrow, 3. TOTAL, 26 species; about 591 individuals.—HARRY WILCOX, FRANCIS KRUIDENIER, VADEN W. MILES, MAXINE MILES, JEANNE MOORE, HARRY W. HANN.

BATTLE CREEK, MICH. (Irving Park along Kalamazoo River, west of city to Augusta, to Gull and Wintergreen lakes [W. K. Kellogg Bird Sanctuary] and return; 4 feeding stations; in parts of Calhoun and Kalamazoo counties).—Dec. 31; 8:30 A.M. to 4 P.M. Cloudy; visibility poor; about 4-in. old snow (3 weeks' accumulation); most streams and lakes frozen, nearly all of Gull Lake frozen; no wind; temp. 29° to 31°. Eleven observers in 4 parties. Total miles, 64 (60 by car, 4 on foot); total hours, approximately 58. Whistling swan, 1 (young bird in good condition, with swan flock at Wintergreen Lake, often flying across to Gull Lake); Canada goose, 1000 (est.); blue goose, 1 (wild bird with some stain still present on face at W. K. Kellogg Bird Sanctuary); mallard, 19; black duck, 54; Am. golden-eye, 86; Am. merganser, 6; bobwhite, 4 (plus another covey heard at dusk); ring-necked pheasant, 9; herring gull, 3; mourning dove,

6; barred owl, 1; belted kingfisher, 2; red-bellied woodpecker, 1 (at jickling feeding station); hairy woodpecker, 8; downy woodpecker, 19; blue jay, 19; crow, 14; chickadee, 43; tufted titmouse, 13; white-breasted nuthatch, 11; brown creeper, 3; golden-crowned kinglet, 1; starling, 57; English sparrow, 210 (est.); cardinal, 38; goldfinch, 2; slate-colored junco, 28; tree sparrow, 169; song sparrow, 4. TOTAL, 30 species; about 1832 individuals.—EDWARD M. BRIGHAM, JR., EDWARD M. BRIGHAM, 3RD, ROY BRIGHAM, DR. and MRS. LEE JICKLING, MRS. L. C. NIELSEN, MR. and MRS. N. T. PETERSON, MILES D. PIRNIE, FREDERICK WOODWARD, LAWRENCE H. WALKINSHAW.

DETROIT, MICH. (same areas as in previous counts; open fields 25%, wooded river and stream banks, 35%, shrubby bogs 10%, second-growth woods and nurseries 25%, conifer plantings 5%).—Dec. 24; 8:30 A.M. to 5:45 P.M. Cloudy; calm until noon, then wind S, 7 m.p.h.; temp. 12° to 30°; ground covered with 2½-4-in. snow; streams and lakes mostly frozen. Twenty-two observers in 4 parties. Total hours, 30 (on foot); total miles, 26 (on foot). Mallard, 58; black duck, 8; wood duck, 2; lesser scaup, 106; Am. golden-eye, 250 (est.); Cooper's hawk, 1; red-tailed hawk, 1; red-shouldered hawk, 2; sparrow hawk, 5; bob-white, 31; pheasant, 110; herring gull, 28; hairy woodpecker, 3; downy woodpecker, 20; prairie horned lark, 3; blue jay, 25; crow, 48; black-capped chickadee, 22; tufted titmouse, 42; white-breasted nuthatch, 7; red-breasted nuthatch, 1 (seen at feeding station at close range—W.P.N.); brown creeper, 13; robin, 1; golden-crowned kinglet, 12; cedar waxwing, 7; starling, 450 (est.); English sparrow, 300 (est.); cardinal, 92; purple finch, 6; goldfinch, 12; slate-colored junco, 100; tree sparrow, 43; song sparrow, 39. TOTAL, 33 species; about 1848 individuals. (Seen in area Dec. 24 and 28: brown thrasher, dead, 1; mourning dove, 1; at feeding station.)—JACK, ED, JIM, BETSY, and MARY EICHSTEIT, HELENA JESSMAN, RALPH O'REILLY, MR. and MRS. CLARENCE MESSNER, BOB MESSNER, MOLLY HATCH, W. E. LUDWIG, GRANT LASHBROOK, ROGER BELL, CLARA SCHROEDER, EDITH GOYETTE, LOUISE LOCKAMAN, DORIS SIBLEY, BRUCE C. BISHOP, MARY CATHERINE ELLSWORTH, MRS. GRACE FLOOD, WALTER P. NICKELL (Detroit Audubon Club).

EAST LANSING, MICH. (same area as 1937 and subsequent counts; deciduous woods 25%, pine groves 5%, brushy stream and lake borders 35%, open fields 30%, swamp 5%).—Dec. 24; dawn to dusk. Cloudy; temp. 5° to 27°; wind (in P.M.) SSW, 8-12 m.p.h.; 8 to 10 in. snow; frost on every tree and twig in A.M.; no open water. Observers in 3 groups. Total hours, 32 (30 on foot, 2 by car); total miles, 43 (23 on foot, 20 by car). Marsh hawk, 1; sparrow hawk, 1; bob-white, 20; pheasant, 89; mourning dove, 3; barn owl, 1; barred owl, 1; hairy woodpecker, 6; downy woodpecker, 35; horned lark, 18; blue jay, 23; crow, 120; chickadee, 78; tufted titmouse, 21; white-breasted nuthatch, 28; brown creeper, 15; golden-crowned kinglet, 6; starling, 236; English sparrow, 263; cardinal, 137;

purple finch, 16; goldfinch, 10; junco, 96; tree sparrow, 297; song sparrow, 12. TOTAL, 25 species; 1533 individuals.—KEITH KREAG, EARL WELLS, C. F. and JOHN CLARK, DICK FINDLAY, HAZEL FINDLAY, FLORA CHANDLER, GEO. J. WALLACE, L. CLAIRE HULBERT (Lansing Audubon Society).

MARNE, MICH. (Baker Sanctuary and 1 mile north to Mud Lake; Grand River at Grand Haven, back on M50; cattail marsh 5%, deciduous woods 30%, fields and pastures 40%, river 10%, coniferous woods 2%).—Dec. 28; dawn to dusk. Cloudy; temp. 12° to 20°; wind SW, 15-18 m.p.h.; 8-in. snow; river and streams half frozen, inland lakes completely frozen. Total hours, 9½; total miles, 50 (45 by car, 5 by foot). Am. golden-eye, 196; bufflehead, 1; Am. merganser, 99; red-shouldered hawk, 1; ring-necked pheasant, 73; herring gull, 1100; hairy woodpecker, 3; downy woodpecker, 2; blue jay, 3; crow, 5; black-capped chickadee, 7; tufted titmouse, 8; white-breasted nuthatch, 4; starling, 58; English sparrow, 307; cardinal, 7; goldfinch, 2; red-eyed towhee, 1; slate-colored junco, 1; tree sparrow, 2; white-throated sparrow, 1; song sparrow, 1; Lapland longspur, 75; snow bunting, 2. TOTAL, 24 species; 1959 individuals.—EMILIE and BERNARD BAKER.

MUSKEGON, MICH. (scrub oak, riverbottoms, along shore of Muskegon Lake to channel and Lake Michigan beach).—Dec. 31; 9:30 A.M. to 5:30 P.M. Freezing drizzle in A.M. to foggy and overcast in P.M.; temp. 32°; wind ESE, 3 m.p.h. Total miles, 15 (mostly on foot). Canvas-back, 12; greater scaup, 16; Am. golden-eye, 12; old-squaw, 6; Am. merganser, 3; marsh hawk, 1; ruffed grouse, 5; bob-white, 25 (2 coveys); ring-necked pheasant, 4; herring gull, 503; rock dove, 15; flicker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 3; hairy woodpecker, 4; downy woodpecker, 12; horned lark, 15; blue jay, 24; black-capped chickadee, 20; tufted titmouse, 10; white-breasted nuthatch, 8; red-breasted nuthatch, 1; starling, 64; English sparrow, 124; red-wing, 1 (♂); cardinal, 33; goldfinch, 9; slate-colored junco, 37; tree sparrow, 23; song sparrow, 1; snow bunting, 4. TOTAL, 31 species; 998 individuals. (Seen at Muskegon Dunes State Park, Dec. 28: bald eagle, 1.)—GERTRUDE MAINONE, EDITH HASTINGS, A. VERNE FULLER, BONNIE GILLETTE, BEVERLY HOLCOMB, ALMEDA BOULTON, CATHERINE JEFFERS, DORIS SWINTON, LOIS ALDERMAN, SUE CLOVER, LEAH MAE and CHESTER YACKELS, PAUL A. and MARGARET DRAKE ELLIOTT.

BLOOMINGDALE, IND. (Madden farm to Wabash River, Turkey Run State Park by way of Rockport Hills).—Dec. 24; 8:30 A.M. to 4:30 P.M. Cloudy; ground covered with snow; river partly frozen; temp. 10° at start, 22° at return. Total miles, 34 (27 by car, 7 on foot). Mallard, 31; red-tailed hawk, 1; marsh hawk, 3; sparrow hawk, 3; mourning dove, 10; kingfisher, 2; red-bellied woodpecker, 6; red-headed woodpecker, 15; yellow-bellied sapsucker, 2; hairy woodpecker, 5; downy woodpecker, 12; flicker, 3; blue jay, 15; crow, 500 (est.); chickadee, 25; tufted titmouse, 25; white-breasted nuthatch, 3; brown creeper, 4; Carolina wren, 6; bluebird, 5; golden-crowned kinglet, 3;

starling, 31; English sparrow, 300; meadowlark, 1; cardinal, 12; goldfinch, 3; red-eyed towhee, 1; junco, 120; tree sparrow, 125; song sparrow, 6. TOTAL, 30 species; about 1280 individuals.—**MARTHA JEAN MADDEN, DOROTHY MADDEN HOBSON.**

CRAWFORDSVILLE, IND. (to Shades Park near Waveland, along Sugar Creek, through Pine Hills Park).—Dec. 31; 7:45 A.M. to 2:45 P.M. Cloudy; slight wind, SE; temp. 25° at start; ground covered with 3-4-in. snow; water mostly frozen. Total miles, 40 (30 by car, 10 by foot). Red-tailed hawk, 1; sparrow hawk, 2; rock dove, 2; mourning dove, 18; flicker, 5; red-bellied woodpecker, 6; red-headed woodpecker, 17; hairy woodpecker, 4; downy woodpecker, 3; prairie horned lark, 2; blue jay, 16; crow, 47; black-capped chickadee, 15; tufted titmouse, 1; white-breasted nuthatch, 1; brown creeper, 1; golden-crowned kinglet, 4; starling, 112; English sparrow, 60; cardinal, 7; slate-colored junco, 75; tree sparrow, 19; song sparrow, 7. TOTAL, 23 species; about 425 individuals.—**HOWARD H. VOGEL, JR.**

INDIANAPOLIS, IND. (along White River including Holliday Park, Broad Ripple, Fairview to Riverside, and Maywood; along Fall Creek to Geist Dam; along Pogues Run and Pleasant Run; Bacon's Swamp, suburbs and center of city; open farmland 10%, town suburb deciduous woods 35%, swamp 5%, stream and river bank 35%, gravel pit 5%, lake 10%).—Dec. 26. Clear (after sudden sleet and snowstorm); temp. 0° to 17°; snow cover, river and duck-made opening in lake not frozen. Thirty-one observers in 17 parties. Total hours, 29 (on foot); total miles, 34 (on foot). Canada goose, 66; blue goose, 2; mallard, 608+; black duck, 472+; gadwall, 2; baldpate, 2; pintail, 45; green-winged teal, 2; scaup, 7; hooded merganser, 3; red-breasted merganser, 7; Cooper's hawk, 1; marsh hawk, 5; sparrow hawk, 5; bob-white, 61; killdeer, 3; herring gull, 4; rock dove, 188; mourning dove, 63; great horned owl, 1 (farm near river—R. Bidgood); barred owl, 3; belted kingfisher, 8; flicker, 7; red-bellied woodpecker, 1; hairy woodpecker, 12; downy woodpecker, 64; horned lark, 20; blue jay, 31; crow, 232; black-capped chickadee, 118; Carolina chickadee, 5; tufted titmouse, 77; white-breasted nuthatch, 55; brown creeper, 8; Carolina wren, 9; robin, 1; bluebird, 17; golden-crowned kinglet, 4; starling, 13,528; myrtle warbler, 1 (H. Wright, C. Marks); English sparrow, 674; meadowlark, 2; cardinal, 207; goldfinch, 24; towhee, 3; slate-colored junco, 656; tree sparrow, 136; fox sparrow, 3; song sparrow, 57. TOTAL, 49 species and subspecies; about 17,510 individuals. (Dec. 28: Wilson's snipe, 2.)—**N. E. PEARSON, J. E. POTZGER, MR. and MRS. JOEL W. HADLEY, MR. and MRS. O. H. MENERING, STEVE WAINRIGHT, FRANK DAILEY, H. F. WRIGHT, CHAS. MARKS, ANN and BILL LINDSTADT, DR. and MRS. RAY FRIESNER, H. JOHNSON, SCOTT CALVERT, GEO. FERLING, M. F. CAMPBELL, D. WHITE, MRS. E. COLLINS, G. D. KLOPP, MRS. H. BELL, F. GEISLER, MRS. R. BIDGOOD, MRS. R. SCOT, T. PATTERSON, J. P. LAHR, MRS. H. COBURN, MRS. A. THOMAS, RUBY WOLFE, M. KNOX.**

LAFAYETTE, IND. (Headlee's Pond, Soldiers' Home, Wabash River, town to 6 miles below; deciduous woods 30%, riverbottom 45%, open farmland and fields 25%).—Dec. 26. Clear; temp. 5° to 20° to 12°; perfectly calm until 4 P.M., then wind E, 2-3 m.p.h.; ground covered with 8-in. snow, 5 in. from day before; ponds frozen, Wabash River half covered with ice; very high barometer, rose then fell. Four observers together. Total hours, 9 (on foot); total miles, 14 (on foot). Great blue heron, 1; Canada goose, 9; mallard, 2; black duck, 1; Am. golden-eye, 36; red-tailed hawk, 1; bob-white, 4; pheasant, 1; herring gull, 2; mourning dove, 2; screech owl, 2; horned owl, 1; kingfisher, 3; red-bellied woodpecker, 4; hairy woodpecker, 4; downy woodpecker, 45; phoebe, 1 (seen at 25 ft. in good light with 8x binoculars—L.B.); horned lark, 2; blue jay, 11; crow, 22; black-capped chickadee, 4; tufted titmouse, 27; white-breasted nuthatch, 6; brown creeper, 4; winter wren, 1; Carolina wren, 4; golden-crowned kinglet, 3; starling, 25; English sparrow, 7; cardinal, 25; goldfinch, 2; slate-colored junco, 30; tree sparrow, 112; swamp sparrow, 1 (L.B.); song sparrow, 37. TOTAL, 35 species; about 442 individuals.—**I. W. BURR, J. T. BURR, W. P. ROSS, M. S. WEBSTER.**

SOUTH BEND, IND. (St. Joseph River from Leeper Park along west bank to and through Izaak Walton tract, Judy Creek east of Roseland, Pinhook Park and Riverview Cemetery to Ullery farm and Mud Lake, Rum Village and Souseley Lake, Merrifield Park in Mishawaka along St. Joseph River, south to Blair's woods, east on Dragoon Trail to Baugo Creek, both banks St. Joseph River to return; deciduous woodlands 45%, open farmland 20%, marsh 20%, open river 10%, cedar and spruce groves 5%).—Dec. 31; dawn to dusk. Dull and overcast; temp. 29° to 31°; wind SW, 2-4 m.p.h.; ground covered with 6-8-in. snow with light crust of ice on snow, trees, and plants; light freezing rain from 3 P.M.; creeks and river open, lakes frozen. Sixteen observers in 5 parties. Total hours, 28½ (on foot); total miles, 32 (on foot). Great blue heron, 1; mallard, 10; Am. golden-eye, 73; sharp-shinned hawk, 1; marsh hawk, 1; bob-white, 4; ring-necked pheasant, 1; coot, 1 (crippled); herring gull, 93; rock dove, 37; mourning dove, 1; belted kingfisher, 3; red-headed woodpecker, 1; hairy woodpecker, 1; downy woodpecker, 14; blue jay, 15; crow, 621; black-capped chickadee, 34; tufted titmouse, 17; white-breasted nuthatch, 24; brown creeper, 1; winter wren, 3; starling, 79; English sparrow, 106; cardinal, 12; goldfinch, 3; slate-colored junco, 165; tree sparrow, 3; field sparrow, 1; song sparrow, 13. TOTAL, 30 species; about 1339 individuals.—**MR. and MRS. J. J. SCHNEIDER, C. K. BARNES, JOHN MAURER, M. C. FARRAR, U. F. COLEMAN, A. L. SMITH, CAPT. STANFORD, L. L. HOFMANN, DICK HOFMANN, TOMMY DEE, H. L. WOOLVERTON, ROY ROGERS, E. E. RODGERS, M. D. HARBAUGH, ENID HARBAUGH** (South Bend Audubon Society).

CHAUTAUQUA NATIONAL WILDLIFE REFUGE, HAVANA, ILL. (same area as 1943; Chautauqua refuge and Quiver Creek bottoms; water and

marsh edge 70%, agricultural fields 30%).—Dec. 28; 8:30 A.M. to 5 P.M. Clear; 1-6-in. crusted snow; wind N, calm; temp. 15° to 22°; lake frozen. Total hours afield, 8; total miles, 26, 6 on foot, 20 by car. Canada goose, 375; mallard, 450,000 (6 flocks resting on ice and in air holes); black duck, 2000; pintail, 18; wood duck, 10; scaup, 3; Am. golden-eye, 35; Am. merganser 800; hooded merganser, 25; coot, 1; great blue heron, 8; red-tailed hawk, 1; marsh hawk, 1; bald eagle, 7; bob-white, 14; ring-billed gull, 250; mourning dove, 16; screech owl, 3; red-bellied woodpecker, 8; hairy woodpecker, 2; downy woodpecker, 23; blue jay, 20; crow, 175; black-capped chickadee, 27; tufted titmouse, 19; white-breasted nuthatch, 7; starling, 65; English sparrow, 92; cardinal, 27; slate-colored junco, 225; tree sparrow, 200. TOTAL, 31 species; 454-457 individuals.—MILFRED J. SMITH.

ELSAH, ILL. (Principia College campus to Elsie and vicinity to Eliestown and return).—Dec. 28; 7:30 A.M. to 6 P.M. Cloudy, ground covered with several inches of snow; wind NW, 1-7 m.p.h.; temp. 18° at start, 24° at return. Observers together and separate. Total party miles, 15 (on foot and by car). Bob-white, 13; flicker, 1; red-bellied woodpecker, 1; downy woodpecker, 2; blue jay, 4; crow, 85; chickadee, 8; titmouse, 233; white-breasted nuthatch, 1; cardinal, 10; goldfinch, 2; junco, 80; tree sparrow, 103. TOTAL, 13 species; 330 individuals.—G. B. and G. M. HAPF.

GREENVILLE (BOND CO.), ILL. (east of town to north, south, and west; open fields 60%, woodlands 30%, lake area 10%).—Dec. 30; 9 A.M. to 6:30 P.M. Overcast with heavy fog, some thawing, but ice underfoot; wind SSE, 3-5 m.p.h.; temp. 32° to 34°. Six observers together. Total hours, 8; total miles, 10. Bob-white, 8; mourning dove, 18; flicker, 2; blue jay, 24; crow, 2; tufted titmouse, 5; mockingbird, 2; robin, 2; bluebird, 1; golden-crowned kinglet, 15; starling, 18; English sparrow, 45; cardinal, 9; junco, 115; tree sparrow, 6; white-crowned sparrow, 1 [no details.—Ed.]; field sparrow, 1. TOTAL, 17 species; 274 individuals.—VIOLET ZIMMERMAN, ZELDA HANNUM, ROBERT FOWLER, ELDON GRAFF, WILLIAM LEHN, JR. (S. N. W. Nature Club).

MICHAEL (CALHOUN CO.) ILL. (Trail Ranges of America territory, same as last year—including Michael, Hardin, Kampsville, and Hamburg, all in Calhoun County, well within a diameter of 15 miles; bottomlands 40%, mature woodlands 10%, open farmland 30%, towns 10%, rivers and sloughs 10%).—Dec. 24; dawn to 10 P.M. Overcast; temp. 15° to 34°; wind variable, 3-8 m.p.h.; ground on north slopes covered with 4-in. crusted snow; most ponds and waterways frozen. Sixteen observers in 3 parties. Total hours, 17 (12 on foot, 5 by auto); total miles, 25 (10 on foot). Mallard 5003 (est., feeding in cornfields); black duck, 100 (est.); Am. golden-eye, 23; red-tailed hawk, 3; red-shouldered hawk, 1; Am. rough-legged hawk, 1 (hovering); bald eagle, 2; marsh hawk, 15; sparrow hawk, 7; bob-white, 25; killdeer, 1; Wilson's snipe, 1 (latter 2 species seen in springy ground, watched for half

an hour by 8 people at close range); herring gull, 302; ring-billed gull, 9; rock dove, 12; mourning dove, 9; screech owl, 1; great horned owl, 1; barred owl, 1; kingfisher, 1; flicker, 7; pileated woodpecker, 1 (in deep woods); red-bellied woodpecker, 29; red-headed woodpecker, 52; yellow-bellied sapsucker, 1 (by winterberry shrubs); hairy woodpecker, 7; downy woodpecker, 53; blue jay, 42; crow, 56; black-capped chickadee, 43; tufted titmouse, 28; white-breasted nuthatch, 8; Carolina wren, 27; mockingbird, 1; bluebird, 75; golden-crowned kinglet, 5; cedar waxwing, 3; starling, 51; English sparrow, 417; cardinal, 126; goldfinch, 18; junco, 326; tree sparrow, 153; song sparrow, 3. TOTAL, 44 species; approximately 7050 individuals. (Seen in area Dec. 31: sharp-shinned hawk, 1).—VINCENT BAUMAN, BUD BERRY, BILLY HILL, O. C. K. HUTCHINSON, LEO KANZEN, BILL KARNE, P. C. KING, EDDIE KLUNK, DAVID LANGNER, REV. GEO. M. LINK, VINCENT ROBEEN, JOEY SHOCKLEY, BETTY SHORTAL, WM. A., MARJORIE, and MARIE STELBRINK.

MOLINE, ILL. (to Rock River shore near Davis power plant, along river shore to Black Hawk State Park, through woodland over park trails, around the island and return; mature deciduous woodland 50%, cattail marsh 5%, pastures 15%, river shore 30%).—Dec. 26. Fair; temp. 5° to 6° to 9°; wind SE, 1-7 m.p.h.; ground covered with 2-6-in. crusted snow; all water except parts of Rock River frozen. Six observers together. Total hours, 8 (on foot); total miles, 8 (on foot). Duck (sp.), 17; bald eagle, 6 (here only in winter when fish are available in open water near power plant); bob-white, 15; barred owl, 1; red-bellied woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 7; blue jay, 9; crow, 2; black-capped chickadee, 27; tufted titmouse, 3; white-breasted nuthatch, 14; brown creeper, 2; kinglet (sp.), 6; starling, 5; English sparrow, 20; cardinal, 8; slate-colored junco, 17. TOTAL, 18 species; about 163 individuals.—JAMES BLOMBERG, WILBUR NELSON, BAILEY KNORR, JACK STAES, JOAN ELLIS, MARGARET E. ENGSTROM.

MORRISON (WHITESIDE CO.), ILL. (northwestern part of county; timbered pasture 80%, open farmland 15%, creek with running water 5%).—Dec. 25. Partly cloudy; temp. 20° to 12°; wind NW, 1-7 m.p.h.; 8-in. snow; creek mostly frozen. Two observers together. Total hours, 7; total miles, 6 (on foot). Red-tailed hawk, 2; bob-white, 16; mourning dove, 2; screech owl, 1; red-bellied woodpecker, 2; downy woodpecker, 3; blue jay, 6; crow, 3; black-capped chickadee, 8; white-breasted nuthatch, 2; starling, 3; English sparrow, 46; cardinal, 6; goldfinch, 4; slate-colored junco, 25; tree sparrow, 10. TOTAL, 16 species; 139 individuals.—CALVIN C. REMMERS, JOHN C. AGGEN.

PEORIA, ILL. (Bradley Park and surrounding area, Illinois River within city limits, and Detweiler Park).—Dec. 24; 9 A.M. to 3:30 P.M. Wind NE, bitter, 30 m.p.h.; snow fell before count was completed; temp. 18° at start, 24° at return. Observers together. Total hours afoot, 8; total miles afoot, 8. Herring gull, 500+; red-bellied woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 14; blue jay, 6; crow,

2; chickadee, 23; tufted titmouse, 14; white-breasted nuthatch, 6; golden-crowned kinglet, 4; starling, 185; English sparrow, 150+; cardinal, 21; slate-colored junco, 421; tree sparrow, 264; song sparrow, 4. TOTAL, 16 species; about 1617 individuals. (Seen Dec. 15: Carolina wren, 2.)—VERNON C. ROSSMAN, DOUGLAS A. ROSSMAN.

SPRINGFIELD, ILL. (same area as in past 11 years; 7½-mile radius with Springfield as center, including Lake Springfield, Carpenter Park, and Clear Lake regions along Sangamon River; river woods 50%, open lake shore 17%, city parks 12%, river marsh 9%).—Dec. 29; dawn to dusk. Cloudy; temp. 20° to 30°; wind ESE, 0-10 m.p.h.; 6-8-in. snow on ground; water frozen except for a few open holes. Ten observers in 5 parties, 1 at a feeding station. Total hours, 36 (31 on foot, 5 by car); total miles, 101 (80 by car, mostly to and from territories, 21 on foot). Mallard, 1625; black duck, 75; golden-eye, 1; Cooper's hawk, 1; red-shouldered hawk, 1; red-tailed hawk, 1; marsh hawk, 1; sparrow hawk, 2; bob-white, 43 (3 coveys); herring gull, 1 (imm.); ring-billed gull, 1; rock dove, 11; mourning dove, 4; barred owl, 4; screech owl, 1; kingfisher, 3; flicker, 7; red-bellied woodpecker, 29; red-headed woodpecker, 1; yellow-bellied sapsucker, 1 (present for several weeks at park feeding station—E.B.); hairy woodpecker, 12; downy woodpecker, 66; pairie horned lark, 8; blue jay, 83; crow, 125; chickadee, 126; titmouse, 203; nuthatch, 52; brown creeper, 26; Carolina wren, 32; mockingbird, 1; robin, 1; hermit thrush, 1 (seen at close range with 8x glasses); bluebird, 19; golden-crowned kinglet, 31; cedar waxwing, 6, starling 5000+; English sparrow, 1000+; eastern meadowlark, 4; red-wing, 1; cardinal, 162; purple finch, 4; goldfinch, 40; towhee, 5 (3♂s, 2♀s—B.R.); junco, 365; white-throated sparrow, 1; fox sparrow, 1; swamp sparrow, 5; song sparrow, 77. TOTAL, 49 species; about 9270 individuals. (Seen in area Dec. 26: long-eared owl, 1; northern shrike, 1—V.S.E.; first county records.)—OPEL RIFFEY, CHRISTINE BONNEY, BEATRICE AND LOIS HOPWOOD, ELIZABETH BAUM, CORA McELROY, SARAH and ELIZABETH WARE, VIRGINIA S. EIFFERT, LOIS HARDBARGER, EDITH SUTTON, BILL ROBERTSON.

URBANA-CHAMPAIGN, ILL. (Brownfield and Trelease Woods, Busey's Pasture, Sangamon River near White Heath).—Dec. 30; 8:30 A.M. to 12:15 P.M., 1:15 to 4:15 P.M. Light fog and occasional drizzle; moderate wind, sw; temp. 30° to 34°; ground covered with 5-8-in. snow. Four observers in A.M., 3 in P.M., in 2 parties. Total party hours afield, 11½ (9½ by foot, 2 by car); total party miles, 70 (10 by foot, 60 by car). Mallard, 1; red-tailed hawk, 2; rough-legged hawk, 1; sparrow hawk, 2; bob-white, 18 (covey); pheasant, 1; mourning dove, 2; flicker, 4; red-bellied woodpecker, 10; red-headed woodpecker, 3; hairy woodpecker, 6; downy woodpecker, 27; blue jay, 17; crow, 72; black-capped chickadee, 81; tufted titmouse, 86; white-breasted nuthatch, 26; brown creeper, 3; Carolina wren, 8; robin, 1; golden-crowned kinglet, 7; starling, 7500± (at garbage dump and enroute);

English sparrow, 50; bronzed grackle, 16; cardinal, 19; purple finch, 2; slate-colored junco, 200 (mostly along roadsides); tree sparrow, 1+; song sparrow, 6. TOTAL, 29 species; about 8172 individuals. (Yellow-bellied sapsucker seen Dec. 29—S.C.K.)—W. M. LUCE, H. R. SAWLESS, R. E. YEATTER, W. V. BALDUF, S. C. KENDEIGH.

WAUKEGAN, ILL. (Lake Michigan, harbor, surrounding woods and fields and open-water lake at Ill. Northern Public Service Plant).—Dec. 29; 10:30 A.M. to 4 P.M. Cloudy with heavy mist; temp. 30° to 34°; wind sw; ground covered with 4-6-in. snow; lake and harbor frozen except for a few patches of open water. Three observers together. Total hours, 5½; total miles, 35 (34 in car; 1 on foot). Mallard, 30; black duck, 4; gadwall, 1; green-winged teal, 2; ring-necked duck, 1; lesser scaup, 300; Am. golden-eye, 60; buffle-head, 2; ruddy duck, 2; Am. merganser, 100; red-breasted merganser, 150; red-tailed hawk, 1; pheasant, 5; coot, 1; herring gull, 550; long-eared owl, 1 (found freshly shot); short-eared owl, 1; downy woodpecker, 1; crow, 30; starling, 15; English sparrow, 40; bronzed grackle, 3; cardinal, 1; goldfinch, 14; junco, 4; tree sparrow, 65; song sparrow, 2. TOTAL, 27 species; 1386 individuals. Unusual number of ducks due to lake at power plant which remains open the year around.—ALFRED LEWY, SIDNEY STEIN, JR., JAMES D. WATSON, JR.

APPLETON, WIS. (river banks 25%, lake fronts and hardwoods 25%, city park and streets 12%, ravine and cemetery 13%, open fields, tamarack, willow, and alder swamp 25%).—Dec. 29; 8 A.M. to 5 P.M. Cloudy; mist last 2 hours; 4-6-in. snow; wind sw, 3-5 m.p.h.; temp. 27° at start, 30° at return. Three observers together. Total hours afield, 8 (4 on foot, 4 by car); total miles, 66 (4 on foot, 62 by car). Mallard, 30; black duck, 175; Am. golden-eye, 475; Am. merganser, 27; red-tailed hawk, 1; herring gull, 18; hairy woodpecker, 1; downy woodpecker, 5; blue jay, 2; black-capped chickadee, 8; white-breasted nuthatch, 6; brown creeper, 6; robin, 1; northern shrike, 1; starling, 30; English sparrow, 300+; junco, 4. TOTAL, 17 species; about 1090 individuals.—MRS. WALTER E. ROGERS, MRS. H. L. PLAYMAN, WALTER E. ROGERS.

HORICON MARSH, WAUPUN, WIS. (from Horicon north by car on roads adjacent to the marsh, east on Chester Road across marsh, south to Horicon, north on ice of Rock River to Four Mile Island, with stops and foot trips at Raddatz woods, Brecker farm, Mieske farm, Burnett Ditch, Ewald Pieper farm, Alois Feucht woods, and Four Mile Island).—Dec. 27; 8 A.M. to 5:30 P.M. Dark; 5-in. snow fell during day; 8 to 12 in. snow; wind E, 5-10 m.p.h.; temp. 11° to 15° F. Three observers together. Total hours afield, 9½; total miles on foot, 4¼. Am. rough-legged hawk, 6; European partridge, 43; ring-necked pheasant, 94; herring gull, 1; screech owl, 1; hairy woodpecker, 1; downy woodpecker, 5; blue jay, 4; crow, 68; black-capped chickadee, 9; brown creeper, 5; northern shrike, 1; starling, 8; English sparrow, 510; red-wing, 13; bronzed grackle, 1; goldfinch, 12; slate-colored junco, 7; tree sparrow, 270. TOTAL, 19 species;

1059 individuals.—S. PAUL JONES, HAROLD MATHIAK, WATSON E. BEED.

LAKE GENEVA, WIS. (around entire lake by car; lake front 30%, cattail marsh 10%, swampland 25%, open farmland 5%, deciduous woods 30%).—Dec. 26; 7:45 A.M. to 5 P.M. Clear; temp. 21° at start, 0° at return; 8-in. powdery snow; no wind; west half of lake open. Observers together. Total miles, 32 (25 by car, 7 on foot). Canada goose, 250±; mallard, 300±; black duck, 150±; canvas-back, 2; greater scaup, 7; golden-eye, 550±; bufflehead, 1; hooded merganser, 3; Am. merganser, 75; red-tailed hawk, 2; red-shouldered hawk, 1; Am. rough-legged hawk, 1; ring-necked pheasant, 9; coot, 72; herring gull, 46; hairy woodpecker, 1; downy woodpecker, 18; blue jay, 3; crow, 62; chickadee, 46; white-breasted nuthatch, 7; brown creeper, 1; starling, 33; English sparrow, 21; cardinal, 5; goldfinch, 6; vesper sparrow, 1 (white outer tail feathers and some streaking along the sides noted); slate-colored junco, 6; tree sparrow, 1; song sparrow, 1; Lapland longspur, 1. TOTAL, 31 species; 1682± individuals. Due to sudden cold wave, lake was steaming badly, and we could not identify large numbers of ducks far out in lake.—EARL ANDERSON, C. O. PALMQUIST.

SENECA, WIS. (west-central Crawford County from Seneca northwest toward Mississippi River; deciduous woodlands 60%, pasture and open farmland 10%, beaver ponds and small stream 30%).—Dec. 31. Overcast and foggy in A.M., cloudy in P.M.; temp. 17° to 28°; wind W, 13-18 m.p.h.; ground covered with 7-in. snow; ponds frozen, stream open. Total hours, 7 (on foot); total miles, 12 (on foot). Red-tailed hawk, 2; bob-white, 7; pileated woodpecker, 1; red-bellied woodpecker, 1; hairy woodpecker, 3; downy woodpecker, 1; blue jay, 3; black-capped chickadee, 8; tufted titmouse, 3; white-breasted nuthatch, 7; brown creeper, 1; starling, 15; English sparrow, 25; cardinal, 3; slate-colored junco, 12; tree sparrow, 48. TOTAL, 16 species; 140 individuals.—CLARENCE PAULSON.

STOUGHTON, WIS. (east side of Yahara River to Skaalen's Bridge, west side of river to Lake Kegonsa, return across open fields; Turner's Woods; deciduous farm woodlots 50%, open farmland 45%, sedge marsh 5%).—Dec. 28; 8:30 A.M. to 3:30 P.M. Fair; temp. 2° to 16°; wind NW, 0-2 m.p.h.; 14-in. snow on ground; all water frozen except river at lake outlet. Two observers together. Total hours, 7 (on foot); total miles, 15 (on foot). Mallard, 14; Am. merganser, 1; pheasant, 30; hairy woodpecker, 1; downy woodpecker, 4; blue jay, 1; crow, 8; black-capped chickadee, 10; white-breasted nuthatch, 2; northern shrike, 1; starling, 4; English sparrow, 18; cardinal, 1. TOTAL, 13 species; 95 individuals.—JAMES B. HALE, ARTHUR SCHIEDLUS.

HANLEY FALLS, MINN. (center of town to a point 6 miles west, Yellow Medicine River area including the state game refuge; open farmland 45%, town suburbs 1%, deciduous forest 54%).—Dec. 27; sunrise to 4 P.M. Fair; temp. 11° to 20°; wind NW, 12-18 m.p.h.; ground bare except for a few patches of snow; river frozen. Five observers

in 5 parties. Total hours, 34 (30 on foot, 4 by car); total miles, 41 (37 on foot, 4 by car). Rough-legged hawk, 4; pheasant, 92; snowy owl, 1; short-eared owl, 4; flicker, 1 (N.A.S.) the extraordinary total of 20 was also reported by A.K.M. and K.B. in game refuge where a great many trees had been uprooted by winds a few years ago; hairy woodpecker, 15; downy woodpecker, 9; crow, 17; black-capped chickadee, 86; brown creeper, 5; starling, 8; English sparrow, 110. TOTAL, 12 species; 372 individuals.—N. A. SIMONSON, A. K. MAGELSEN, G. O. NELSON, KNUTE BERGMAN, ED ROSS.

MINNEAPOLIS, MINN. (Theodore Wirth Park, Lake Harriet, Minnesota River valley, Nine Mile Creek; riverbottom 40%, city parks 30%, open farmland 20%, mixed woodland 10%).—Dec. 27; 9 A.M. to 4:30 P.M. Fair; temp. 15° to 23°; wind S to WNW, 15-20 m.p.h.; ground mostly bare, some old snow. Six observers in 3 parties. Total hours, 20½; total miles, 33 (18 on foot, 15 in car). Ring-necked pheasant, 31; screech owl, 2; great horned owl, 1; red-bellied woodpecker, 5; hairy woodpecker, 9; downy woodpecker, 14; blue jay, 19; black-capped chickadee, 58; white-breasted nuthatch, 18; brown creeper, 12; robin, 2; golden-crowned kinglet, 2; northern shrike, 1; starling, 401; English sparrow, 1160 (est.); red-wing, 146; rusty blackbird, 13; bronzed grackle, 3; cowbird, 8 (with mixed flock of blackbirds for several weeks—Proctor, Swedenborg); cardinal, 13; redpoll, 6; goldfinch, 33; slate-colored junco, 46; tree sparrow, 474. TOTAL, 24 species; about 2447 individuals.—L. M. ALER, MRS. E. S. JENSEN, MRS. I. A. LUPIENT, MRS. C. R. PROCTOR, MRS. E. D. SWEDENBORG, MRS. LLOYD M. STREILY (Minneapolis Audubon Society).

[Another count from Minneapolis, covering essentially the same territory was made on Dec. 31 by Mr. and Mrs. E. D. Swedenborg. In addition to the species listed in the preceding count, they observed: mallard, 5; barred owl, 1; kingfisher, 1; Brewer's blackbird, 1; Lapland longspur, 2. Their totals were 24 species and 1155 individuals.—ED.]

MINNEAPOLIS, MINN. (Camden Park to Coon Crick Dam, along Mississippi River; oak-elm climax 60%, open farmland 40%).—Dec. 30; 9 A.M. to 4:30 P.M. Heavy overcast, intermittent fog and mist; calm; temp., 31°; 1-in. snow on ground; several streams and river open. Eleven observers in 2 parties. Total hours, 13; total miles, 16 (on foot). Am. golden-eye, 10; ring-necked pheasant, 14; rock dove, 5; screech owl, 1; hairy woodpecker, 7; downy woodpecker, 3; blue jay, 26; crow, 4; black-capped chickadee, 2; white-breasted nuthatch, 13; brown creeper, 1; starling, 378 (est.); English sparrow, 221 (est.); cardinal, 4; goldfinch, 1; slate-colored junco, 31; tree sparrow, 13. TOTAL, 17 species; about 734 individuals.—JOHN S. D. CLARK, RHODA GREEN, HELEN TOWLE, SEVERENA HOLMBERG, FLORENCE NELSON, JOAN CLARK, LOIS BARNETT, BRUCE AUGER, RUSSELL HOFSTEAD, W. J. BRECKENRIDGE, WM. H. LONGLEY (Minneapolis Bird Club).

ST. PAUL, MINN. (Lake Vadnais area; pine and spruce 90%, hardwoods 5%, open country 5%).—Dec. 28; 8:30 A.M. to 5 P.M. Clear; temp. -3° to 10°;

wind, 5 m.p.h. Baldpate, 1; screech owl, 1; long-eared owl, 1; hairy woodpecker, 2; downy woodpecker, 5; blue jay, 5; crow, 5; black-capped chickadee, 26; Hudsonian chickadee, 2; white-breasted nuthatch, 5; golden-crowned kinglet, 3; starling, 1; cardinal, 5; purple finch, 5; slate-colored junco, 37; tree sparrow, 17; white-throated sparrow, 4. TOTAL, 17 species; 125 individuals.—BRO. I. VINCENT, BRO. J. PIUS, BRO. H. LEWIS, FRANK OSTROWSKI, THOMAS MEYER, CHARLES REINHART.

ST. PAUL, MINN. (Pine Bend to Inver Grove and along the Mississippi, as described in 1942 count; oak-birch hills 80%, flooded elm lowlands 15%, cedar bluffs 5%).—Dec. 27: 8:30 A.M. to 3:30 P.M. Overcast until 10 A.M.; wind W, 10 m.p.h.; temp. 15° to 25°; patches of snow, little open water. Three observers together. Total hours, 7 (on foot); total miles, 12 (on foot). Mallard, 8; Am. golden-eye, 1; Cooper's hawk, 1; red-tailed hawk, 1; ring-necked pheasant, 1; hairy woodpecker, 2; downy woodpecker, 5; blue jay, 5; crow, 1; black-capped chickadee, 19; white-breasted nuthatch, 8; starling, 17; English sparrow, 120; red-wing, 7; cardinal, 12; slate-colored junco, 38; tree sparrow, 20; unidentified, 11 (horned lark or Am. pipit). TOTAL, 17 species; 277 individuals.—BRUCE AUGER, RUSSELL HOFSTEAD, WM. H. LONGLEY.

ATLANTIC, IOWA (Atlantic cemetery, woods along Nishnabotna River west of town, woods along Turkey Creek east of town; deciduous woodland 75%, pastures 15%, pine woodland 10%).—Dec. 31: 9:30 A.M. to 4:30 P.M. Mostly clear; temp. 15°; wind WNW, 15 m.p.h.; water mostly frozen. Nine observers in 3 parties. Total hours, 15 (9 on foot, 6 in car); total miles, 52 (33 by foot, 19 in car). Cooper's hawk, 3; red-tailed hawk, 7; sparrow hawk, 1; mourning dove, 40; flicker, 25; red-bellied woodpecker, 5; hairy woodpecker, 7; downy woodpecker, 20; blue jay, 14; crow, 10; black-capped chickadee, 100; tufted titmouse, 4; white-breasted nuthatch, 15; red-breasted nuthatch, 2; brown creeper, 10; golden-crowned kinglet, 1; starling, 50; English sparrow, 200; western meadowlark, 4; cardinal, 10; goldfinch, 4; red-eyed towhee, 2; slate-colored junco, 100; tree sparrow, 5; field sparrow, 15; Harris's sparrow, 25; song sparrow, 1. TOTAL, 27 species; 680 individuals.—MR. and MRS. MANNEY MALLETTE, FRANK G. MALLETTE, CHARLES MALLETTE, CHARLES C. RUHR, NORMAN HANSEN, ROBERT ALEXANDER, GLEN OWEN JONES, DON C. BICE (Atlantic Bird Club).

CEDAR FALLS, IOWA (Snag Creek area, Josh Higgins State Park; open farmland 15%, open deciduous timber and cedar growth 85%).—Dec. 31: 8:30 A.M. to 12 M., 1:30 to 5 P.M. Cloudy for 2 hours, then fair; temp. 20° to 16°; wind NW, 25 m.p.h.; ground covered with 4-7-in. crusted snow; parts of Cedar River and Snag Creek frozen. Eight observers in 2 parties. Total hours, 49; total miles, 52½ (38½ on foot, 14 by car). Mallard, 1; red-tailed hawk, 1; red-shouldered hawk, 1; belted kingfisher, 1; flicker, 1; red-bellied woodpecker, 2; hairy woodpecker, 5; downy woodpecker, 8; prairie horned lark, 1; blue jay, 10; crow, 50; black-capped chickadee, 9; tufted

titmouse, 1; white-breasted nuthatch, 8; brown creeper, 2; robin, 2; starling, 15; bronzed grackle, 1; cardinal, 7; slate-colored junco, 37; song sparrow, 1. TOTAL, 21 species; about 164 individuals.—MR. and MRS. VERNON JOHNSON, MRS. JENNIE BAXTER, VERA DAVIS, MRS. LOLA DEAL, FRANCES CROUTER, MRS. OREN PAINE, MRS. RUSSELL RUGG (Cedar Falls Audubon Society).

CEDAR RAPIDS, IOWA (Ellis Park, Cedar Lake, Mound Farm Woods, Bever Park, Beverly; open woodland 70%, open farmland 20%, small lake 10%).—Dec. 24: 9:30 A.M. to 12:30 P.M., 1:30 to 5 P.M. Cloudy; temp. 14° to 20°; wind S veering to SW, 1 to 7 m.p.h.; ground covered with 2-10-in. snow; all water frozen except part of Cedar Lake. Five observers in 1 party. Total hours, 6½; total miles, 7 (5 on foot, 2 by car). Mallard, 1; red-tailed hawk, 1; marsh hawk, 1; bob-white, 9; ring-necked pheasant, 3; screech owl, 1; barred owl, 3; short-eared owl, 8; n. flicker, 2; red-bellied woodpecker, 2; hairy woodpecker, 1; downy woodpecker, 7; blue jay, 15; crow, 14; black-capped chickadee, 20; white-breasted nuthatch, 12; brown creeper, 2; starling, 120; English sparrow, 150; cardinal, 3; slate-colored junco, 140; tree sparrow, 6; song sparrow, 3. TOTAL, 23 species; 524 individuals.—HAZEL COOK, EARNEST STEFFEN, IOLA TILLAPPAUGH, MYRA WILLIS, LILLIAN SERSBOUSEK.

DAVENPORT, IOWA (Duck Creek Park, along Creek to Devil's Glen; Credit Island and nearby shore area along Mississippi River).—Dec. 31: 8:30 A.M. to 4:30 P.M. Cloudy; ground covered with snow, varying to a foot in depth; wind W and WNW in P.M.; temp. 33° at start, 23° at return; creeks and ponds frozen; river frozen except strip in main channel. Total miles, about 12 (on foot). Am. golden-eye, 70; Am. merganser, 25; red-tailed hawk, 2; bald eagle, 2; sparrow hawk, 1; bob-white, 33 (2 coveys); ring-billed gull, 2; flicker, 1; red-bellied woodpecker, 8; hairy woodpecker, 3; downy woodpecker, 24; blue jay, 43; crow, 13; black-capped chickadee, 44; tufted titmouse, 17; white-breasted nuthatch, 21; brown creeper, 3; robin, 1; golden-crowned kinglet, 1; starling, 181; English sparrow, 294; cardinal, 10; goldfinch, 2; slate-colored junco, 91. TOTAL, 24 species; 892 individuals.—C. F. MUELLER.

DES MOINES, IOWA (Dove Woods along Beaver Creek, Crocker Woods, Waukonsa, woods along Des Moines River from Euclid Ave. to Lovington, Morningstar, Ashworth Park).—Dec. 24: 8:30 A.M. to 6:30 P.M. Cloudy except for short period at midday; 4-5-in. packed snow covered with 1½-in. fluffy snow; no wind; temp. 18° at start, 24° at return. Nine observers in 4 parties. Total hours, 32 (21½ on foot, 10½ by car); total party miles, 101 (31 on foot, 70 by car). Cooper's hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 2; Am. rough-legged hawk, 1; marsh hawk, 1; sparrow hawk, 1; bob-white, 5; pheasant, 1; mourning dove, 3; screech owl, 2; great horned owl, 2; barred owl, 2; long-eared owl, 1; short-eared owl, 1; saw-whet owl, 3; belted kingfisher, 1; flicker, 12; red-bellied woodpecker, 10; hairy woodpecker, 17; downy woodpecker, 40; blue jay, 17; crow, 58; black-capped chickadee, 23;

tufted titmouse, 34; white-breasted nuthatch, 64; brown creeper, 7; winter wren, 1; golden-crowned kinglet, 2; northern shrike, 2; starling, 97; English sparrow, 179; meadowlark, 18; cardinal, 76; goldfinch, 251; slate-colored junco, 334; tree sparrow, 418; song sparrow, 13; Lapland longspur, 75. TOTAL, 38 species; 1986 individuals.—ALBERT C. BERKOWITZ, JACK MUSGROVE, WOODWARD BROWN, OLIVIA McCABE, BRUCE F. STILES, MRS. LESTER W. HASKELL, JOE K. BROWN, ROBERT VANE, MRS. HAROLD R. PEASLEY.

DUBUQUE, IOWA (Linwood and Mount Calvary cemeteries, Eagle Point Park and Mississippi River sloughs in Wisconsin; pine woodland 15%, deciduous woodland 40%, open land in park 20%, river sloughs 25%).—Dec. 31; 9 A.M. to 12 M., 1:30 to 5:30 P.M. Foggy and misty in A.M., clearing in P.M.; temp. 21° to 30°; wind NW, 5-10 m.p.h.; ground covered with 7-in. old snow; all fresh water frozen except below dam. Seven observers together. Total hours, 7; total miles, 15 (9 on foot, 6 by car.) Am. merganser, 1; red-tailed hawk, 2; barred owl, 2; long-eared owl, 3; belted kingfisher, 1; red-headed woodpecker, 1; yellow-bellied sapsucker, 3; hairy woodpecker, 6; downy woodpecker, 6; blue jay, 30; crow, 489; black-capped chickadee, 52; tufted titmouse, 1; white-breasted nuthatch, 18; brown creeper, 9; brown thrasher, 1 (evidently injured); robin, 12; golden-crowned kinglet, 8; starling, 26; cardinal, 188; goldfinch, 1; slate-colored junco, 39; tree sparrow, 50. TOTAL, 23 species; about 949 individuals.—GEORGE CROSSLEY, MR. and MRS. JAMES DOCKEL, HENRY HERRMANN, DAVID REED, MRS. R. S. RUEGNITZ, IVAL SCHUSTER (Dubuque Bird Club).

MOUNT VERNON, IOWA (through town and north 3 miles, including golf course; west 1 mile to Leigh School; south of Mt. Vernon 6 miles to Cedar River, and through length of Dark Hollow in Palisades State Park; open farmland 60%, town 5%, swampy pastureland 5%, deciduous timber along river 30%).—Dec. 30. Cloudy; temp. 28°; wind 1-7 m.p.h.; snow on ground; river largely frozen. Total hours, 7½ (6½ by foot, 1 in car); total miles, 25 (7 on foot, 18 in car). Red-tailed hawk, 1; bald eagle, 1 (Dec. 31, 2 adults and 3 immature seen in same location along Cedar River; white heads of adults clearly seen); ring-necked pheasant, 53 (in sheltered cattail swamp); mourning dove, 13 (largest number observers have ever seen in 1 day during winter); great horned owl, 2; downy woodpecker, 2; blue jay, 5; crow, 6; black-capped chickadee, 11; white-breasted nuthatch, 3; brown creeper, 1; winter wren, 2 (observed at close range darting in and out from under tree roots along edge of Dark Hollow; second winter that observers have seen them in Palisades Park); starling, 29; English sparrow, 84; cardinal, 2; slate-colored junco, 15; tree sparrow, 1. TOTAL, 17 species; approximately 155 individuals.—DAVID and J. HAROLD ENNIS.

SANBORN, IOWA (and vicinity; open farmland, prairie, scattered groves and ponds).—Dec. 25. Clear; windy; temp. 0°. Observers together. Total hours, 8 (4 on foot, 4 by car); total miles, 35 (25 by car, 10 on foot). Ring-necked pheasant, 40; rock dove, 500

(est.); marsh hawk, 2; red-tailed hawk, 3; Am. rough-legged hawk, 2; screech owl, 3; great horned owl, 6; hairy woodpecker, 1; downy woodpecker, 5; northern flicker, 3; blue jay, 25; crow, 25; starling, 3000 (est.); tree sparrow, 700 (est.); slate-colored junco, 50; English sparrow, 4000 (est.); brown creeper, 12; white-breasted nuthatch, 8; black-capped chickadee, 50; golden-crowned kinglet, 8; unidentified, 25. TOTAL, 20 species; about 8468 individuals. An average of 100 English sparrows and 80 starlings were counted on each of about 40 farms visited.—R. F. GRUENEWALD, LESLIE GETTING.

SIoux CITY (WOODBURY CO.), IOWA (Brown's Lake area, War Eagle's Monument Park Woods, confluence area of Missouri and Big Sioux rivers, Lower Riverside, Riverview Park, Riverside, Riverside Park, Graceland Park Cemetery, Grandview Park, North Side, West Side, Stone Park; hilly woodland, mature deciduous heavy timber 50%, lake, river country, and lowland 25%, open hills 10%, town 15%).—Dec. 24, 9 A.M. to 5:30 P.M. Clear; temp. 6° to 20°; wind S 1-7 m.p.h. until about 11:45 A.M., veering to SW, W, NW, and due N at 2:30 P.M., 8-12 m.p.h.; ground covered with 3.2-in. soft snow; all lake water frozen except 2 spots where mallards are keeping water open; Missouri River 50% frozen; Big Sioux 80% frozen. Eight observers in 7 parties. Total hours afield and point observation, 62; total miles, 14 (by foot). Mallard, 5000 (est.); pheasant, 7; screech owl, 3; great horned owl, 3; barred owl, 1; flicker, 5; red-bellied woodpecker, 2; hairy woodpecker, 17; downy woodpecker, 47; blue jay, 3; crow, 56; chickadee, 93; white-breasted nuthatch, 59; red-breasted nuthatch, 3; brown creeper, 40; robin, 2; golden-crowned kinglet, 4; starling, 1; English sparrow, 466; bronzed grackle, 7; cardinal, 8; pine siskin, 15; goldfinch, 14; junco, 113; tree sparrow, 78. TOTAL, 25 species; about 6047 individuals. (Dec. 31: marsh hawk, 1—M.W.B.)—E. R. BIRDSALL, MRS. MAMIE W. BROWN, R. D. HISSONG, KARL KUHLMANN, ZELL C. LEE, MRS. J. L. SCHOTT, BERTHA and CARL WELHAUSEN (members and guest Sioux City Bird Club).

KANSAS CITY, MO. AND KAN. (an area 15 miles in diameter).—Dec. 31. Heavy overcast, breaking in midafternoon; snow patches in shady places; light breeze, N; temp. 28° at start, 27° in P.M. Four groups working separately by car and afoot. Mallard, 900; pintail, 12; scaup, 52; sharp-shinned hawk, 2; Cooper's hawk, 1; red-tailed hawk, 14; Harlan's hawk, 1; rough-legged hawk, 3; marsh hawk, 2; sparrow hawk, 5; coot, 4; screech owl, 1; great horned owl, 1; barred owl, 1; kingfisher, 1; northern flicker, 10; red-bellied woodpecker, 9; hairy woodpecker, 7; downy woodpecker, 28; blue jay, 10; crow, 1076; black-capped chickadee, 83; tufted titmouse, 55; white-breasted nuthatch, 8; brown creeper, 6; Carolina wren, 2; mockingbird, 1; bluebird, 52; golden-crowned kinglet, 11; starling, 6; English sparrow, 45; western meadowlark, 15; red-wing, 1; cardinal, 87; redpoll, 1; goldfinch, 109; Arctic towhee, 2; slate-colored junco, 470; tree sparrow, 251; Lincoln's sparrow, 2; Harris's sparrow, 2; fox sparrow, 3; song sparrow, 74. TOTAL, 43

species; 3426 individuals.—DEAN COLE, MRS. COLE, ESTHER O'CONNOR, BERNICE TATUM, IVA STANDLEY, F. L. HAGAMAN, MRS. HAGAMAN, KAUFMAN WILSON, NATHAN FAY, JOHN LANGSDALE, MRS. LANGSDALE, HENRY HARFORD, REX CONYERS, RONALD RYDER, ELLIOTT MAJOR, MRS. MAJOR.

RANKEN (ST. LOUIS CO.), MO. (a tract between Valley Park and Eureka 6 miles long, 4 miles wide [access to river cut off by federal restrictions]; deciduous trees on Ozark slopes 40%, open valleys surrounding 3 long springfed creeks 40%, evergreen groves 10%, farmland 10%).—Dec. 24; 8:30 A.M. to 4:40 P.M. Cloudy nearly all day; wind 1-2 m.p.h., temp. 26° to 37°; creeks thinly frozen, ground hard in forenoon, soft after midday. Fourteen observers in 4 parties. Total hours, 12 (on foot); total miles, 16 (on foot). Red-tailed hawk, 4; sparrow hawk, 3; killdeer, 1; flicker, 6; pileated woodpecker, 2; red-bellied woodpecker, 5; hairy woodpecker, 4; downy woodpecker, 8; blue jay, 12; crow, 14; chickadee, 26; tufted titmouse, 14; white-breasted nuthatch, 17; Carolina wren, 6; mockingbird, 1; bluebird, 26; golden-crowned kinglet, 2; cedar waxwing, 70; starling, 15; myrtle warbler, 6; English sparrow, 5; cardinal, 30; goldfinch, 2; slate-colored junco, 230; tree sparrow, 110; song sparrow, 6. TOTAL, 26 species; 625 individuals.—MRS. H. B. COMFORT, J. EARL COMFORT, A. W. DREYER, MRS. SUSAN GRUMMANN, MRS. HELEN HILL, JAMES JACKSON, MRS. EDITH LONG, KEN NIEWOEHNER, HAROLD and STUART O'BYRNE, GEORGE and JOHN RAVOLD, RICHARD REICHLER, S. P. JONES (Webster Groves Nature Study Society).

NEW ORLEANS, LA. (Canal Boulevard at City Park Ave., through City Park to Lake Pontchartrain, along lake front to Little Woods, to Highway No. 90, out highway 3 miles, back Highway No. 90 to starting point; swamp and marsh 20%, wooded areas 10%, lake front 15%, park area 50%, cultivated land 5%).—Dec. 26. Cloudy and foggy in A.M., clearing in late P.M.; temp. 62° to 63°; wind ENE, 9 m.p.h. Total hours, 11 (on foot and in car); total miles, 58 (10 on foot, 48 in car). Pied-billed grebe, 21; cormorant, 8; great blue heron, 3; Am. egret, 1; ring-necked duck, 2; lesser scaup, 17; black vulture, 2; sharp-shinned hawk, 1; red-shouldered hawk, 1; Am. rough-legged hawk, 2; marsh hawk, 4; sparrow hawk, 5; coot, 108; killdeer, 189; Wilson's snipe, 1; herring gull, 9; Forster's tern, 2; mourning dove, 44; burrowing owl, 1; belted kingfisher, 3; flicker, 4; red-headed woodpecker, 1; yellow-bellied sapsucker, 3; downy woodpecker, 1; phoebe, 1; vermilion flycatcher, 1 (♂, probably same individual seen at same location on 5 occasions recently); tree swallow, 51; blue jay, 21; crow, 7; fish crow, 448; Carolina wren, 2; mockingbird, 49; brown thrasher, 3; robin, 90; ruby-crowned kinglet, 3; Am. pipit, 43; loggerhead shrike, 1; starling, 13; myrtle warbler, 29; yellow-throat, 1; English sparrow, 20; meadowlark, 41; red-wing, 6; rusty blackbird, 200; boat-tailed grackle, 21; grackle (Florida, purple, or bronzed), 400; cardinal, 5; towhee, 1; white-throated sparrow, 2; swamp sparrow, 1. TOTAL, 50 species and subspecies; ap-

proximately 1906 individuals. (Seen during period —red-tailed hawk, ring-billed gull, laughing gull, golden-crowned kinglet, blue-headed vireo, cowbird.)—EARLE R. GREENE.

BOTTINEAU, N. D. (along Oak Creek from the School of Forestry to the golf course, south across fields past the cemetery, west to Oak Creek, north to Bottineau; mixed hardwoods 10%, pastureland 20%, grain stubble 65%, plowed land 5%).—Dec. 24; dawn to dusk. Cloudy early, clear after noon; temp. 2° to -6° F.; wind NW, 15-25 m.p.h.; ground covered with 2-in. drifting snow; water frozen. One observer. Total hours, 7 (on foot); total miles, 8 (on foot). Sharp-tailed grouse, 6; ring-necked pheasant, 2; short-eared owl, 3; hairy woodpecker, 1; downy woodpecker, 1; black-capped chickadee, 5; white-breasted nuthatch, 2; starling, 33; English sparrow, 138. TOTAL, 9 species; 191 individuals.—THOMAS M. STREET.

DES LACS NATIONAL WILDLIFE REFUGE, KENMORE, N. D. (Des Lacs valley from Highway No. 5 bridge to dam No. 7a and adjacent prairie; open field 50%, wooded coulees 50%).—Dec. 31; 10 A.M. to 5 P.M. Overcast; ground covered with trace of snow; temp. -8° to -10°; wind NW, 25 m.p.h. Three observers in 1 party. Total hours afield, 20 (8 on foot, 12 by car); total party miles, 45 (10 by foot, 35 by car). Am. rough-legged hawk, 3; pheasant, 11; great horned owl, 2; prairie horned lark, 6; magpie, 11; black-capped chickadee, 4; starling, 9; English sparrow, 159; redpoll, 2; tree sparrow, 28. TOTAL, 10 species; 235 individuals.—R. W. HUNT, DR. and MRS. R. T. GAMMELL.

LOWER SOURIS NATIONAL WILDLIFE REFUGE, UPHAM, N. D. (same area as in 1943 and subsequent counts; refuge headquarters east through marsh, wooded riverbottom near Hillman and Johnson bridges, sandhills and return through agricultural land along west side of marsh).—Dec. 29; 8:45 A.M. to 5 P.M. Cloudy; ½-in. snow on ground; wind NW, about 5 m.p.h.; temp. 2° to 8°; marsh and river frozen except for small areas around dams. Two observers afield. Total hours, 16½; total miles, 43 (35 by car, 10 by foot). Mallard, 101; Am. rough-legged hawk, 4; golden eagle, 1; sharp-tailed grouse, 31; European partridge, 6; ring-necked pheasant, 132; screech owl, 1; great horned owl, 1; snowy owl, 1; short-eared owl, 1; downy woodpecker, 2; magpie, 3; chickadee, 14; white-breasted nuthatch, 7; English sparrow, 1; red-wing, 11; tree sparrow, 44. TOTAL, 17 species; 361 individuals. (Seen in area during period of Dec. 24-Jan. 1: hairy woodpecker, snow bunting.)—DONALD R. AMBROSEN, B. M. HAZELTINE.

SAND LAKE NATIONAL WILDLIFE REFUGE, COLUMBIA, S. D. (southern end of refuge north to Four-Mile Grade; marsh edge 80%, agricultural field and upland 20%).—Jan. 1; 10 A.M. to 6 P.M. Clear; 2-in. snow, drifted off of open areas; wind SW, 15 m.p.h.; temp. 16° to 10°; lake and marsh frozen except for 4 small holes. Total hours afield, 7; total miles, 37 (2 on foot, 35 by car). Canada goose, 31; mallard, 12,000; black duck, 1; rough-legged hawk, 7; bald eagle, 1; marsh hawk, 2;

prairie falcon, 1; prairie chicken, 3; ring-necked pheasant, 550; great horned owl, 1; short-eared owl, 1; prairie horned lark, 11; crow, 1; slate-colored junco, 1; lapland longspur, 200. TOTAL, 15 species; 12,811 individuals.—JEROME H. SROUDT.

FREMONT, NEB. (same area as in 1943 and previous counts; woods of Wild Court Park, and other woods 70%, roadsides and open fields 20%, cemetery, red cedars 10%).—Dec. 26. Clear; temp. 25° to 35°; cold s wind; ground covered with light snow. Total miles, 20 (by car and on foot). Canada goose, 90; pheasant, 4; bob-white, 20 (1 covey); screech owl, 2; marsh hawk, 1; sparrow hawk, 1; flicker, 3; red-bellied woodpecker, 2; downy woodpecker, 5; hairy woodpecker, 4; blue jay, 2; crow, 165; black-capped chickadee, 14; white-breasted nuthatch, 6; red-breasted nuthatch, 1; brown creeper, 4; robin, 65; bluebird, 2; golden-crowned kinglet, 2; cedar waxwing, 25; western meadowlark, 2; bronzed grackle, 50; cardinal, 6; pine siskin, 3; goldfinch, 15; slate-colored junco, 15; tree sparrow, 25. TOTAL, 27 species; 534 individuals.—MRS. LILY RUEGG BUTTON.

OMAHA, NEB. (Fontenelle Forest, Hummel Park, Irvington, Forest Lawn and 90th St. suburban areas; deciduous woods 70%, coniferous tree plantings 10%, Missouri River willow bottoms 10%, suburbs 10%).—Jan. 1; 9 A.M. to 5 P.M. Fair; temp. -3° to 7°; wind N, 25-10 m.p.h.; ground covered with 4-6-in. crusted snow; creeks frozen but running springs in Fontenelle Forest and much open water in Missouri River between ice gorges. Five observers in 2 parties. Total hours, 7 (on foot); total miles, 11. Sharp-shinned hawk, 1; red-tailed hawk, 2; sparrow hawk, 1; rock dove, 6; great horned owl, 1; flicker, 4; red-bellied woodpecker, 1; hairy woodpecker, 2; downy woodpecker, 10; crow, 308; black-capped chickadee, 60; white-breasted nuthatch, 2; brown creeper, 6; mockingbird, 1 (one wintering individual, under observation daily for more than a month); bluebird, 2; golden-crowned kinglet, 18; starling, 14; English sparrow, 51; cardinal, 7; goldfinch, 12; red crossbill, 3; slate-colored junco, 227; Montana junco, 1; tree sparrow, 6. TOTAL, 24 species; about 746 individuals.—DR. and MRS. F. D. GARRETT, F. W. HAECKER (compiler), DR. and MRS. R. A. MOSER (Omaha Nature Study Club).

BALDWIN, KAN. (east and north edges of town to point 13 miles northwest, Lone Star Lake; open farmland 15%, town suburbs 20%, deciduous farm woodlots 30%, lake shore 35%).—Dec. 27. Partly cloudy; temp. 28° to 34°; wind NW, 5-10 m.p.h.; ground partly covered with 1-2-in. crusted snow; all water frozen except parts of Lone Star Lake. Total hours, 7½; total miles, 42 (10 on foot, 36 by car). Canada goose, 2; mallard, 1250; gadwall, 2; baldpate, 3; Am. pintail, 1; redhead, 1; canvasback, 1; Am. merganser, 1; red-tailed hawk, 8; marsh hawk, 5; sparrow hawk, 5; bob-white, 15; great horned owl, 2; flicker, 10; red-bellied woodpecker, 7; hairy woodpecker, 7; downy woodpecker, 18; blue jay, 15; crow, 31; black-capped chickadee, 15; tufted titmouse, 15; mockingbird, 2; bluebird, 3; migrant shrike, 1; starling, 116; English sparrow,

140; meadowlark, 135 (80 in 1 flock); cardinal, 17; goldfinch, 21; slate-colored junco, 97; tree sparrow, 177; Harris's sparrow, 16; song sparrow, 4. TOTAL, 33 species; 2143 individuals. (Seen in area Dec. 26: brown creeper, 1; yellow-bellied sapsucker, 1).—RENA ALEXANDER, FRANCES BAILEY, MR. and MRS. IVAN L. BOYD, MR. and MRS. T. A. EVANS, MRS. I. J. KLOSTER, R. F. MILLER (members Baldwin Bird Club).

HAYS, KAN. (Victoria to Hays and back, all points within 12 miles of each other; open fields 80%, deciduous woodland 10%, suburban area 10%).—Dec. 31; 9 A.M. to 5 P.M. Fair; temp. 25° to 38°; wind NW, 18-20 m.p.h.; scattered traces of snow. Total hours, 7; total miles, 35 (about 15 on foot, 20 by car). Buteo (sp.), 1; marsh hawk, 1; hairy woodpecker, 1; horned lark, 25 (est.); crow, 17; chickadee, 12; brown creeper, 1; bluebird, 1; golden-crowned kinglet, 1; English sparrow, 35; western meadowlark, 1; junco, 7; Smith's longspur, 50 (est.). TOTAL, 13 species; about 153 individuals.—SGT. WILLIAM J. NORSE.

NORWICH, KAN. (north of Norwich along Ninnescah River, southwest across farmland, same area as last year; open fields and native pasture 40%, mixed thickets and woods along river 30%, groves 10%, woods along streams 8%, weedy shelterbelts 7%, weed patches 5%).—Dec. 30; 9:30 A.M. to 6:30 P.M. Partly cloudy; temp. 28° to 35°; wind N, 13-16 m.p.h.; ground bare; water mostly open. Total miles afoot, 11; total hours, 8½. Mallard, 1; Am. rough-legged hawk, 2; marsh hawk, 4; sparrow hawk, 1; pheasant, 3; great horned owl, 3; flicker, 3; red-shafted flicker, 1; hairy woodpecker, 3; downy woodpecker, 2; horned lark, 90; crow, 2729; black-capped chickadee, 10; Bewick's wren, 1; English sparrow, 125; meadowlark, 196; cardinal, 6; Arctic towhee, 13; slate-colored junco, 7; tree sparrow, 378; Harris's sparrow, 80; song sparrow, 1. TOTAL, 22 species; 3659 individuals.—AUSTIN WRIGHT.

WICHITA, KAN. (wooded area along stream, Arkansas River south of town, Oak and Sims parks, Maple Grove Cemetery; open farmland 20%, deciduous woodlots 60%, river bank 20%).—Dec. 27; 7:30 A.M. to 6 P.M. Mostly cloudy; temp. 29° to 35°; wind NW at start, N at return, 8-12 m.p.h.; ground covered with half inch of sleet; ponds and streams frozen. Two observers together. Total hours, 10½ (9 on foot, 1½ on bicycle); total miles, 25 (8 on foot, 11 on bicycle, 6 on bus). Cooper's hawk, 1; marsh hawk, 3; sparrow hawk, 5; flicker, 2; red-bellied woodpecker, 2; hairy woodpecker, 5; downy woodpecker, 6; crow, 946 (est.); chickadee, 33; tufted titmouse, 5; brown creeper, 6; winter wren, 2; golden-crowned kinglet, 28; English sparrow, 111 (est.); eastern meadowlark, 3; western meadowlark, 6 (not stated how both meadowlarks were identified —ED.); red-wing, 1100; cardinal, 7; pine siskin, 9; slate-colored junco, 160; tree sparrow, 96; Harris's sparrow, 71; song sparrow, 1. TOTAL, 23 species; about 2608 individuals.—LOREN KELLER, HARRY L. HOBSON.

SALT PLAINS NATIONAL WILDLIFE REFUGE, JET, OKLA. (and vicinity; 10,600-acre lake,

adjacent agricultural land, fields, deciduous woods).—Dec. 30; 8:30 A.M. to 6:30 P.M. Partly cloudy; moderate s wind; temp. 36° to 48°. Two observers together. Total hours afield, 9; total miles, 73 (70 by car, 3 by foot). Pied-billed grebe, 1; great blue heron, 32; black-crowned night heron, 5; Canada goose, 1315 (est.); blue goose, 1; mallard, 75,000 (est.); black duck, 2; gadwall, 203; baldpate, 13; Am. pintail, 1510 (est.); green-winged teal, 50; blue-winged teal, 10; shoveller, 63; wood duck, 15; red-head, 1; ring-necked duck, 2; canvas-back, 5; scaup, 305; buffle-head, 2; ruddy duck, 6; Am. merganser, 10,000 (est.); red-tailed hawk, 6; Am. rough legged hawk, 3; bald eagle, 1; marsh hawk, 15; sharp-shinned hawk, 1; Cooper's hawk, 1; sparrow hawk, 3; bob-white, 12; pheasant, 2; coot, 2000 (est.); killdeer, 2; Wilson's snipe, 1; ring-billed gull, 1000 (est.); gull (sp.?), 9000 (est.); screech owl, 2; great horned owl, 1; burrowing owl, 3; belted kingfisher, 1; flicker, 4; red-bellied woodpecker, 1; downy woodpecker, 6; prairie horned lark, 30; crow, 320; tufted titmouse, 25; brown creeper, 1; Texas wren, 2; bluebird, 13; starling, 40; English sparrow, 50; eastern and western meadowlarks, 260; red-wing and rusty blackbirds, 52; cowbird, 31; cardinal, 7; slate-colored junco, 109; tree sparrow, 36; Harris's sparrow, 24; song sparrow, 14; swamp sparrow, 2. TOTAL, 59 species; about 101,616 individuals.—LYLE F. SELKO, THOMAS L. DAVIS.

TULSA, OKLA. (Mohawk Park and adjoining farmland, same area as covered by previous bird counts: city residential area 20%, elm, hackberry, oak floodplains association 30%, cultivated fields and hay meadows 33%, lakes, lagoons, and creeks 17%).—Dec. 31; 8 A.M. to 5 P.M. Overcast to one-half overcast; temp. 34° to 40°; wind N 8-18 m.p.h.; no snow or ice. Sixteen observers in 5 parties. Total hours, 30 (27 on foot, 3 in car); total miles, 56 (26 on foot, 30 in car). Pied-billed grebe, 5; great blue heron, 5; mallard, 5000 (est.); green-winged teal, 8; lesser scaup, 2; buffle-head, 8; Am. merganser, 2500 (est.); Cooper's hawk, 1; red-tailed hawk, 12; Harlan's hawk, 1; red-shouldered hawk, 3; golden eagle, 1 (J.L.B., H.D.C.); marsh hawk, 5; sparrow hawk, 1; bob-white, 12; coot, 6; killdeer, 10; Wilson's snipe, 2; ring-billed gull, 375 (est.); mourning dove, 2; screech owl, 1; great horned owl, 1; short-eared owl, 1; belted kingfisher, 2; flicker, 26; pileated woodpecker, 1; red-bellied woodpecker, 10; red-headed woodpecker, 55; hairy woodpecker, 2; downy woodpecker, 16; blue jay, 47; crow, 31; black-capped chickadee, 43; tufted titmouse, 73; white-breasted nuthatch, 5; brown creeper, 5; Carolina wren, 4; mockingbird, 2; brown thrasher, 1; bluebird, 2; golden-crowned kinglet, 1; migrant shrike, 2; starling, 52; English sparrow, 25; meadowlark, 45; red-wing, 5000 (est.); rusty blackbird, 105 (1 partial albino with white wings and tail—H.T.P.); bronzed grackle, 3; cowbird, 23; cardinal, 27; goldfinch, 40; red-eyed towhee, 4; Arctic towhee, 7; savannah sparrow, 1; slate-colored junco, 125; tree sparrow, 16; field sparrow, 7; Harris's sparrow, 27; white-crowned sparrow, 5; white-throated sparrow, 133; fox sparrow, 16; Lincoln's sparrow, 9; swamp spar-

row, 1; song sparrow, 22. TOTAL, 65 species and subspecies; about 15,983 individuals.—MR. and MRS. J. L. BORDEN, MR. and MRS. H. D. CHASE, HUGH S. DAVIS, MR. and MRS. JOHN GALLEY, O. W. LEITSON, D. J. NORLING, MR. and MRS. H. T. PHILLIPS, JANE and ANNABELL PHILLIPS, BOYD ROBINSON, BOB COULTER, FRED HOFFMAN.

WICHITA MOUNTAINS WILDLIFE REFUGE, CACHE, OKLA. (second annual count; within Wichita Refuge, along shore French Lake, headquarters area, Kiowa, Comanche, and Grama lake shores, and sw slope of Elk Mountain; lake shores 25%, creek bottoms 30%, blackjack-post oak associations 20%, open prairie 25%).—Dec. 28; 8:30 A.M. to 5:45 P.M. Cloudy; 1¼-in. snow on ground until thaw in afternoon, light fog in P.M.; wind S, 2-4 m.p.h.; temp. 30° to 47°. One observer. Total hours afield, 8½, total miles, 20½ (12½ on foot, 8 by car). Pied-billed grebe, 3; great blue heron, 5; mallard, 215; baldpate, 60; redhead, 12; ring-necked duck, 6; scaup, 2; Am. golden-eye, 3; buffle-head, 7; hooded merganser, 22; Am. merganser, 28; red-tailed hawk, 3; golden eagle, 2; bald eagle, 1; marsh hawk, 2; bob-white, 14; Rio Grande turkey, 37; Am. coot, 1; belted kingfisher, 2; yellow-shafted flicker, 2; red-shafted flicker, 21; red-bellied woodpecker, 2; red-headed woodpecker, 6; hairy woodpecker, 2; downy woodpecker, 4; blue jay, 57; crow, 36; plumbeous chickadee, 28; titmouse, 22; white-breasted nuthatch, 2; Bewick's wren, 2; Carolina wren, 2; rock wren, 2; robin, 10; golden-crowned kinglet, 4; shrike, 3; meadowlark, 153; cardinal, 16; goldfinch, 7; towhee (sp. Arctic?), 7; savannah sparrow, 12; rock (rufous-crowned) sparrow, 2; junco (subsp.?), 62; tree sparrow, 8; field sparrow, 24; Harris's sparrow, 69; song sparrow, 13. TOTAL, 47 species; 1568 individuals. (Seen in area Dec. 26, 27: brown creeper, 2; gadwall, 2; ruddy duck, 4).—ERNEST J. GREENWALT.

ARANSAS NATIONAL WILDLIFE REFUGE, AUSTWELL, TEX. (same area as 1931 and subsequent counts; refuge interior south to Little Devil Bayou and Brahman Mill, and refuge shoreline).—Dec. 31; 9 A.M. to 5 P.M. Cloudy, rain in A.M., clear in P.M.; wind N; temp. 59° to 71°. Three observers. Total hours afield, 22; total miles, 41 (40 by car, 1 by foot). Holboell's grebe, 1; horned grebe, 4; pied-billed grebe, 2; white pelican, 29; brown pelican, 5; double-crested cormorant, 45; great blue heron, 12; Am. egret, 12; snowy egret, 3; reddish egret, 1; Louisiana heron, 1; black-crowned night heron, 3; Canada goose, 6; lesser Canada goose, 627; blue goose, 1; mallard, 53; mottled duck, 10; gadwall, 51; baldpate, 46; pintail, 322; green-winged teal, 5; blue-winged teal, 4; shoveller, 26; redhead, 3; canvas-back, 4; lesser scaup, 2; ruddy duck, 3; turkey vulture, 21; black vulture, 42; red-tailed hawk, 12; Sennett's white-tailed hawk, 2; bald eagle, 2; marsh hawk, 6; Audubon's caracara, 3; pigeon hawk, 1; sparrow hawk, 17; bob-white, 12; Rio Grande turkey, 31; whooping crane, 6 (2 families, each of 3 birds); coot, 75; semipalmated plover, 1; killdeer, 4; long-billed curlew, 3; greater yellow-legs, 3; lesser yellow-legs, 51; least sandpiper, 1;

dowitcher, 270; western sandpiper, 1; herring gull, 3; ring-billed gull, 12; laughing gull, 6; gull-billed tern, 1; Caspian tern, 7; black skimmer, 2; mourning dove, 108; road-runner, 1; belted kingfisher, 1; flicker, 1; Texas woodpecker, 1; flycatcher (sp.), 2; vermilion flycatcher, 1; mockingbird, 6; catbird, 1; robin, 125; Am. pipit, 1; shrike (sp.), 4; myrtle warbler, 1; English sparrow, 2; meadowlark, 50; Brewer's blackbird, 20; cowbird, 10; cardinal, 5; vesper sparrow, 53. TOTAL, 73 species; 2266 individuals.—EARL L. BENHAM, RALPH L. DAY, EARL W. CRAVEN.

BLUE CREEK (MOORE CO), TEX. (Blue Creek Canyon and tributary canyons 2-6 miles north of junction with Canadian River, cross country between canyons; cottonwood-lined streams 60%, open mesquite-covered slopes 40%, almost negligible "cover" in either area).—Dec. 24; 10:15 A.M. to 5:30 P.M. Clear; light w wind, 10 m.p.h.; temp. 35° at start, 50° at end; ground bare; stream partially frozen. Total hours, 7¼ (on foot); total miles, 7 (on foot). Sharp-shinned hawk, 1; red-tailed hawk, 1; golden eagle, 2; marsh hawk, 2; sparrow hawk, 2; yellow-shafted flicker, 2; red-shafted flicker, 4; hairy woodpecker, 1; Texas woodpecker, 6; Bewick's wren, 2; rock wren, 3; western meadowlark, 1; cardinal, 1; pine siskin, 3; common goldfinch, 6; green-tailed towhee, 1; slate-colored junco, 1; Oregon junco, 8; pink-sided junco, 1; tree sparrow, 4; song sparrow, 2. TOTAL, 21 species; 54 individuals.—FRANK G. WATSON.

EL PASO, TEX. (Mesilla National Wildlife Refuge, Randall's Pool, McKelligan's Canyon, Memorial Park, Ascarate Park; river bosque 50%, semiarid canyon 15%, city park 5%, artificial lake 15%, adjoining deciduous grove 15%).—Dec. 31; 8:45 A.M. to 12:30 P.M., 1:30 to 5:45 P.M. Clear; temp. 34.2° to 57°; wind NW, 3-10 m.p.h.; ground bare; water open. Two observers together in A.M., 1 observer in P.M. Total hours, 8 (on foot); total miles, 14 (on foot). Great blue heron, 15; black-crowned night heron, 1; mallard, 59; New Mexican duck, 10; gadwall, 65; baldpate, 8; green-winged teal, 11; shoveller, 53; Am. merganser, 9; turkey vulture, 1; sharp-shinned hawk, 2; red-tailed hawk, 1; marsh hawk, 3; sparrow hawk, 2; scaled quail, 6; Gambel's quail, 10; coot, 23; killdeer, 1; ring-billed gull, 3; mourning dove, 8; red-shafted flicker, 9; Calif. jay, 7; white-necked raven, 23; crow, 3; cactus wren, 1; rock wren, 3; Townsend's solitaire, 1; ruby-crowned kinglet, 5; loggerhead shrike, 12; western meadowlark, 2; red-wing, 50; Brewer's blackbird, 37; pyrrhuloxia, 3; English sparrow, 300; house finch, 150; desert sparrow, 5; Oregon junco, 16; gray-headed junco, 1; white-crowned sparrow, 1; Gambel's sparrow, 200; song sparrow, 3. TOTAL, 41 species; about 1123 individuals.—MARY BELLE KEEFER, MRS. J. OWEN ALLEN (El Paso Bird Study Club).

FT. WORTH, TEX. (roadside and pastures adjacent to Clear Fork River south of T&P railroad; Ridglea Golf Course, Live Oak Creek at its junction with Lake Worth, Fish Hatchery near Eagle Mountain Lake; Forest Park, Botanic Garden; deciduous

bottom woodland 45%, open pastureland 25%, ponds and lake 25%, cattail marsh 5%).—Dec. 30; 10 A.M. to 6 P.M. Light clouds; temp. 47° to 53°; wind W, 1-10 m.p.h.; ground wet. Three observers in 3 parties. Total hours, 11 (2 in car, 9 on foot); total miles, 66 (49 by car, 17 on foot). Ward's heron, 3; yellow-crowned night heron, 1; mallard, 6; gadwall, 6; green-winged teal, 14; turkey vulture, 11; red-tailed hawk, 1; marsh hawk, 1; osprey, 1; pigeon hawk, 1; sparrow hawk, 6; coot, 4; killdeer, 14; Wilson's snipe, 10; herring gull, 6; mourning dove, 8; belted kingfisher, 5; flicker, 24; red-bellied woodpecker, 19; yellow-bellied sapsucker, 1; hairy woodpecker, 3; downy woodpecker, 9; phoebe, 1; horned lark, 23; blue jay, 39; crow, 26; Carolina chickadee, 39; tufted titmouse, 22; brown creeper, 8; winter wren, 5; Bewick's wren, 3; Carolina wren, 5; mockingbird, 27; robin, 1; bluebird, 23; golden-crowned kinglet, 13; ruby-crowned kinglet, 11; Am. pipit, 5; cedar waxwing, 13; loggerhead shrike, 14; starling, 738 (est.); black and white warbler, 1; myrtle warbler, 16; English sparrow, 58; meadowlark, 62; red-wing, 225; cowbird, 181; cardinal, 70; goldfinch, 21; Arctic towhee, 2; savannah sparrow, 3; lark sparrow, 23; slate-colored junco, 139; field sparrow, 10; Harris's sparrow, 48; white-throated sparrow, 6; song sparrow, 27. TOTAL, 57 species; about 2062 individuals. (Flocks of red-wings and cowbirds estimated at 15,000 observed flying toward Lake Worth in late afternoon not included in count).—MRS. ROBERT BOWMAN, MRS. GEO. ADAMS, MRS. WADE SMITH.

HOUSTON, TEX. (lower portion of San Jacinto River from point 15 miles upstream near Sheldon, south on both sides of river to mouth; heavy woods, marshes, cypress swamps, open fields, salt-water estuary, riverbottom).—Dec. 31; 8:45 A.M. to 4:45 P.M. Light rain and mist until 10:30, steady and heavy rain from 10:30 to 2:30, lighter skies with occasional light showers after 2:30; slight SW wind until about 10:30, thereafter wind N, 5-10 m.p.h.; temp. 66° at start, 56° at end. Twenty-three observers in 5 parties. Total party miles, 140 (132 by car, 8 on foot); total party hours, 28. Pied-billed grebe, 5; white pelican, 20; brown pelican, 13; double-crested cormorant, 16; great blue heron, 13; Am. egret, 10; snowy egret, 2; Louisiana heron, 6; little blue heron, 10; black-crowned night heron, 1; Canada goose, 119; mallard, 386; baldpate, 26; Am. pintail, 282; green-winged teal, 3; lesser scaup, 45; turkey vulture, 32; black vulture, 24; red-tailed hawk, 8; red-shouldered hawk, 15; marsh hawk, 12; sparrow hawk, 29; coot, 112; killdeer, 73; Wilson's snipe, 5; herring gull, 17; ring-billed gull, 45; Bonaparte's gull, 1; laughing gull, 10; gull-billed tern, 32; Forster's tern, 18; royal tern, 1; Caspian tern, 4; black skimmer, 35; mourning dove, 29; rock dove, 30; barred owl, 1; belted kingfisher, 4; flicker, 16; pileated woodpecker, 1; red-bellied woodpecker, 2; red-headed woodpecker, 2; phoebe, 6; tree swallow, 82; rough-winged swallow, 24; blue jay, 22; crow, 63; Carolina chickadee, 56; tufted titmouse, 15; brown creeper, 6; house wren, 1; Carolina wren, 8; mockingbird, 30; brown thrasher,

1; robin, 178; hermit thrush, 3; bluebird, 33; blue-gray gnatcatcher, 1; golden-crowned kinglet, 3; ruby-crowned kinglet, 18; Am. pipit, 48; cedar waxwing, 155; loggerhead and migrant shrike, 41; starling, 1500±; blue-headed vireo, 1; orange-crowned warbler, 2; pine warbler, 11; myrtle warbler, 51; English sparrow, 380; eastern meadowlark, 112; red-wing, 357; Brewer's blackbird, 1100±; bronzed grackle, 262; cowbird, 1200±; cardinal, 33; goldfinch, 49; savannah sparrow, 67; slate-colored junco, 1; chipping sparrow, 2; field sparrow, 1; white-throated sparrow, 13; grasshopper sparrow, 1; vesper sparrow, 50; song sparrow, 1. TOTAL, 84 species; about 7503 individuals.—C. E. BUEHNER, E. T. DAWSON, MRS. E. T. DAWSON, VIOLA DICKINSON, W. J. EBERSOLE, MRS. J. C. FARIS, RUTH FILKINS, MARY GENTRY, LILLIAN GORZUCKY, J. M. HEISER, MABEL KAISER, ARTHUR LEFEVRE, LOGAN MEITZEN, ULRICH MERTEN, EDNA MINER, MRS. F. J. QUINN, ALBERTA RIESEN, ROBERT VINES, BLANCHE WHEELER, CARRIE WILCOX, GEORGE G. WILLIAMS, ELLA WOLFER.

MULESHOE NATIONAL WILDLIFE REFUGE, MULESHOE (BAILEY CO.), TEX. (same area as 1943 and subsequent counts; White, Goose, and Paul's lakes 75%, along immediate prairie uplands and agricultural fields including earth reservoirs and stock watering places 25%).—Dec. 26; 8:20 A.M. to 7:35 P.M. Overcast; calm; ground bare; very light snow flurries; temp. 31° at start, 20° at finish. Total hours, 8½; total miles, 33 (27 by car, 6 on foot). Canada goose, 1241; snow goose, 2; mallard, 93,000; gadwall, 32; baldpate, 450; pintail, 87,000 (est.); green-winged teal, 6500 (est.); shoveller, 254; ruddy duck, 4; red-tailed hawk, 3; Swainson's hawk, 2 (a cripple first noted Dec. 8 on remote portion of refuge surrounded by open prairie; 2 present continuously after Dec. 14; birds quite tame and allowed approach to about 70 ft. for observation of tail, feet, bill, chest band, and general coloration); ferruginous rough-leg, 4; golden eagle, 1; bald eagle, 3; marsh hawk, 11; duck hawk, 3; sparrow hawk, 2; bob-white, 14; scaled quail, 204; little brown crane, 5052; Wilson's snipe, 1; killdeer, 3; mourning dove, 23; great horned owl, 1; burrowing owl, 1; short-eared owl, 1; red-shafted flicker, 1; pipit, 9; meadowlark, 54; red-wing, 227; Brewer's blackbird, 22; house finch, 7; vesper sparrow, 12; sage sparrow, 4; slate-colored junco, 8; pink-sided junco, 32; black-chinned sparrow, 17 (observed from truck at 50 ft. in mesquite growth); white-crowned sparrow, 87; song sparrow, 2. TOTAL, 39 species; 194,304 individuals.—EDWARD J. O'NEILL.

SAN ANTONIO, TEX. (hillside thickets, Sunset Hills, Fort Sam Houston to Woodlawn and Elmdorff lakes and return, Fort to Mitchell's Lake and return; hillside thickets 25%, partly settled suburbs 25%, open fields 30%, mixed woodland 10%, open lakeside 10%).—Dec. 24; 8:30 to 11:45 A.M., 12:15 to 5 P.M. Misty, with frequent drizzling rain; temp. 55° minimum, 60° maximum; wind 1-7 m.p.h. Three observers in 2 parties. Total hours, 21; total miles, 32 (30 by car, 2 on foot). Pied-billed grebe, 29; Mexican cormorant, 1; great blue heron, 3; Am. egret, 3; little blue heron, 2; gadwall, 19;

baldpate, 5; pintail, 3; shoveller, 8; ring-necked duck, 56; canvas-back, 26; lesser scaup, 18; ruddy duck, 6; red-breasted merganser, 6; Cooper's hawk, 1; red-tailed hawk, 3; red-shouldered hawk, 2; marsh hawk, 1; sparrow hawk, 9; Fla. gallinule, 4; coot, 39; killdeer, 18; rock dove, 22; mourning dove, 10; Mexican ground dove, 6; Inca dove, 15; road-runner, 1; kingfisher, 2; flicker, 4; golden-fronted woodpecker, 15; yellow-bellied sapsucker, 1; Texas woodpecker, 3; phoebe, 2; vermilion flycatcher, 1; blue jay, 6; Carolina chickadee, 8; black-crested titmouse, 14; verdin, 2; house wren, 5; Bewick's wren, 6; Carolina wren, 7; mockingbird, 30; robin, 1; blue-gray gnatcatcher, 2; ruby-crowned kinglet, 8; cedar waxwing, 14; loggerhead shrike, 9; starling, 500+; orange-crowned warbler, 4; myrtle warbler, 41; yellow-throat, 3; English sparrow, 135; western meadowlark, 85; red-wing, 50; Brewer's blackbird, 9; great-tailed grackle, 31; cowbird, 600+; cardinal, 28; pyrrhuloxia, 12; house finch, 2; goldfinch, 7; Arkansas goldfinch, 3; spotted towhee, 3; savannah sparrow, 6; vesper sparrow, 16; lark sparrow, 15; singing; rufous-crowned sparrow, 3; white-crowned sparrow, 23; white-throated sparrow, 6; Lincoln's sparrow, 23. TOTAL, 70 species; about 2056 individuals.—MAJOR CLIFFORD H. PANGBURN, SGT. AUDREY H. CLAUGUS, SGT. JOSEPH M. HEISER, JR.

COLUMBIA FALLS, MONT. (The Flat to Flat-head River, Mengon Creek, Mengon and Feirsteine ranchsteads, woods to river; Tway ranch, Montana Soldier's Home woods to Shellrock Manor and return by island; McWinniger Slough; town area 5%, pasture and open fields 40%, coniferous woods 5%, mixed brushy woodlands 30%, slough, swamps, and creek 10%, river 10%).—Dec. 28; 9:15 A.M. to 6:30 P.M. Cloudy, mist and fog banks on mountains; temp. 21° to 30°; no wind; ground covered with 2-4-in. snow; McWinniger Slough entirely frozen, river banks frozen, floating ice on open river. Observers together. Total hours, 8 (on foot); total miles, 11½ (on foot). Mallard, 101; Am. golden-eye, 1; pigeon hawk, 1; ruffed grouse, 1; ring-necked pheasant, 82; Wilson's snipe, 2; hairy woodpecker, 3; downy woodpecker, 1; Steller's jay, 1; Am. magpie, 10; Clark's nutcracker, 23; black-capped chickadee, 30; red-breasted nuthatch, 7; robin, 1; golden-crowned kinglet, 4; Bohemian waxwing, 240; English sparrow, 24; evening grosbeak, 16; junco, 35; song sparrow, 4. TOTAL, 20 species; 587 individuals. (Greatest number of wintering juncos for this area in my records).—STANLEY THOROMAN, CARLETON THOROMAN.

FORTINE, MONT. (farms, river-flats, and forests in central Fortine valley; heavy fir-larch forest 15%, second-growth fir-larch-lodgepole woods 40%, spruce-aspen river-flats 25%, fields and streams 20%).—Dec. 28; 9 A.M. to 6 P.M. Cloudy; temp. 20° to 34°; 1-in. snow on ground; Fortine Creek frozen, springs and Grave Creek open. Total hours, 9 (on foot); total miles, 23 (on foot). Mallard, 20; green-winged teal, 3; golden-eye (females, sp.?), 2; ruffed grouse, 2; Wilson's snipe, 5; red-shafted flicker, 1; downy woodpecker, 1; magpie, 11; raven, 2; Clark's nutcracker, 14; black-capped chickadee, 18; moun-

tain chickadee, 39; white-breasted nuthatch, 9; red-breasted nuthatch, 79; creeper, 1; dipper, 4; evening grosbeak, 45; common redpoll, 101; pine siskin, 16; red crossbill, 61; white-winged crossbill, 10; Oregon junco, 1; snow bunting, 1. TOTAL, 23 species; 446 individuals. (Dec. 18: killdeer, 2.)—WINTON WEYDEMEYER.

PINEDALE, WYO. (south end of Fremont Lake to Eastfork of Newfork River; lake outlet; Pine Creek to Doyle's; Newfork River; Boulder Flat; Ball's pond; foothills of Wind River Mts.; 7000 to 8000 ft. elevation; lodgepole pine woods 40%; sagebrush benches 30%, open fields 15%, small ponds 15%).—Dec. 27. Fair; temp. 17° to 16°; wind NW, 1-7 m.p.h.; ground covered with 3-8-in. snow; water open. Three observers together. Total hours, 8 (7 on foot, 1 by car); total miles, 50 (10 on foot, 40 by car). Mallard, 110; baldpate, 6; green-winged teal, 4; Am. golden-eye, 6; Barrow's golden-eye, 14; golden-eye (unident.), 8; buffle-head, 9; Am. merganser, 6; goshawk, 2; Am. rough-legged hawk, 3; golden eagle, 1; ruffed grouse, 1; killdeer, 3; Wilson's snipe, 7; horned owl, 1; kingfisher, 5; hairy woodpecker, 1; magpie, 165; raven, 3; Clark's nutcracker, 2; black-capped chickadee, 64; mountain chickadee, 8; white-breasted nuthatch, 1; creeper, 4; dipper, 2; golden-crowned kinglet, 7; gray-crowned, Hepburn's and black rosy finches (est. in 1 milling flock), 150; pine siskin, 4; tree sparrow, 28. TOTAL, 30 species; about 625 individuals. (Seen in area Dec. 25: flicker, 1; Dec. 20: Red-wing, 40; Crossbill, 8.)—JAMES K. HARROWER, JAMES MORROW, ARNOLD W. BOLLE.

SAN ANDRES NATIONAL WILDLIFE REFUGE (DONA ANA CO.), N. M. (Pasture 11 gate to Rope Spring, south to Ash Canyon; all in desert type brush, San Andres Mts.).—Dec. 31; 8 A.M. to 6 P.M. Cloudy; wind NE, light to moderate; temp. 26° at start, 38° at finish. Total hours afield, 10; total miles, 8 (2 on foot, 6 by car). Cooper's hawk, 1; red-tailed hawk, 2; buteo (sp.), 1; Am. rough-legged hawk, 1; golden eagle, 4; marsh hawk, 3; scaled quail, 31; Gambel's quail, 18; mourning dove, 46; red-shafted flicker, 3; Arkansas kingbird, 2 [no details—Ed.]; Say's phoebe, 2; horned lark, 12; piñon jay, 9; cañon wren, 3; rock wren, 2; curve-billed thrasher, 4; crissal thrasher, 1; mountain bluebird, 3; western gnatcatcher, 2; ruby-crowned kinglet, 1; phainopepla, 1; loggerhead shrike, 6; meadowlark, 3; pyrrhuloxia, 5; house finch, 43; spotted towhee, 4; cañon towhee, 12; sage sparrow, 88; Oregon junco, 71; pink-sided junco, 33; red-backed junco, 5; gray-headed junco, 8; black-chinned sparrow, 1; Gambel's sparrow, 31. TOTAL, 35 species and subspecies; 462 individuals.—CECIL A. KENNEDY, CHARLES A. KEEFER.

DEER FLAT NATIONAL WILDLIFE REFUGE, NAMPA, IDAHO (shores of Lake Lowell, dense willow growths, partially submerged open bays and mud flats, adjoining agricultural fields).—Dec. 26; 9:30 A.M. to 6:15 P.M. Cloudy; ground bare, moderate wind, SE; temp. 26° at start, 38° at return. Two observers. Total miles, 37 (31 by car, 6 by foot); total hours, 8¾. Great blue heron, 9; Canada

goose, 1500 (est.); mallard, 660,000 (est.); baldpate, 11,500 (est.); pintail, 4800 (est.); green-winged teal, 14; redhead, 9; lesser scaup, 305; Am. golden-eye, 339; buffle-head, 32; ruddy duck, 21; Am. merganser, 86; red-breasted merganser, 143; red-tailed hawk, 3; buteo (sp.), 2; rough-legged hawk, 1; golden eagle, 7; marsh hawk, 18; duck hawk, 2; pigeon hawk, 4; sparrow hawk, 9; Hungarian partridge, 7; bob-white, 12; ringed-necked pheasant, 157; killdeer, 2; Calif. gull, 16; horned owl, 1; short-eared owl, 1; red-shafted flicker, 19; Am. magpie, 186; Am. raven, 4; crow, 18; marsh wren, 1; English sparrow, 46; western meadowlark, 5; red-wing, 800 (est.); goldfinch, 31; Oregon junco, 157; white-crowned sparrow, 68 [no details; Gambel's?—Ed.]. TOTAL, 38 species; about 680,335 individuals.—WILBERT A. RODGERS, DICK RODGERS.

LEWISTON, IDAHO (afoot through cemetery, parks, and along river fronts, by car along Clearwater to dam and Snake to Tammany Creek, along Lindsay Creek, and through Lewiston Orchards, with side trips on foot; town 15%, watersides 50%, open farm and range 10%, orchards 25%).—Jan. 1; 9 A.M. to 5:30 P.M. Cloudy; temp. 33° to 44°; wind less than 1 m.p.h.; no snow in valley but visible on hills above town; forebay and all sluggish waters frozen. Observers together except when afoot. Total hours, 10; total miles, 48 (6 afoot, 42 by car). Pied-billed grebe, 1; blue heron, 1; mallard, 846+; wood duck, 1; baldpate, 10; Am. golden-eye, 7; Am. merganser, 1; sharp-shinned hawk, 2; marsh hawk, 1; sparrow hawk, 1; European partridge, 5 (covey); bob-white, 1; pheasant, 29; killdeer, 2; mourning dove, 42; belted kingfisher, 1; red-shafted flicker, 19; magpie, 11; robin, 21; golden-crowned kinglet, 4; cedar waxwing, 20; Bohemian waxwing, 2; Audubon's warbler, 1; English sparrow, 850+; western meadowlark, 81; Brewer's blackbird, 460+ (feeding in a barnyard); house finch, 141; Shufeldt's junco, 63; Gambel's sparrow, 10; song sparrow, 15. TOTAL, 30 species; 2649+ individuals. (Dec. 31: hairy woodpecker, 1.)—MR. AND MRS. F. C. GILLETT, MRS. U. S. MILLER, LORENA MILLER.

MOSCOW MTS., IDAHO (from Gnat Creek, Sec. 24, T40N, R5W to top of ridge and then west to U. S. 95, Sec. 18, T40N, R5W; 3000-4500 ft. altitude; pine, fir, and larch 100%).—Dec. 27; 8:15 A.M. to 3:30 P.M. Cloudy, ceiling 7500 ft., visibility 55 miles; temp. 27° at 3000, 24° at 4500 ft.; 3-in. snow at 3000, 14-in. at 4500 ft.; wind S by E, 19-38 m.p.h. Total hours, 7¼; total miles, 12. Am. rough-legged hawk, 1; blue grouse, 3; ruffed grouse, 2; hairy woodpecker, 1; Arctic three-toed woodpecker, 1; Steller's jay, 1; black-capped chickadee, 4; mountain chickadee, 2; chestnut-backed chickadee, 1; brown creeper, 2; winter wren, 1; golden-crowned kinglet, 4. TOTAL, 12 species; 23 individuals. (Birds apparently moved down on north slope because of wind. Short-eared owl, red-shafted flicker, Am. goldfinch, Oregon junco, and song sparrow found in open country on return from mountains. White-headed and pileated woodpeckers found on mountain Dec. 3.)—LEONARD WING.

BEAR RIVER MIGRATORY BIRD REFUGE,

BRIGHAM, UTAH (same area as 1939 and subsequent counts; from refuge headquarters west along canal road, south and east over dikes to Perry, north following highway along foothills to Brigham, west through fields and over salt flats, touching points along Bear River, and back to refuge headquarters).—Dec. 26; 9:30 A.M. to 5:30 P.M. Partly cloudy; ground bare; calm; temp. 29° at start, 31° at return. Three observers in 1 party. Total hours afield, 24; total miles, 40 (38 by car, 2 by foot). Western grebe, 2; eared grebe, 1; pied-billed grebe, 8; great blue heron, 25; whistling swan, 4100 (est.); Canada geese, 79; mallard, 1840 (est.); gadwall, 2; baldpate, 191; pintail, 5130 (est.); green-winged teal, 12; shoveller, 29; redhead, 1; canvas-back, 5; lesser scaup, 3; Am. golden-eye, 9; buffle-head, 4; ruddy duck, 3; hooded merganser, 2; Am. merganser, 110; Cooper's hawk, 1; Am. rough-legged hawk, 5; golden eagle, 8; bald eagle, 18; marsh hawk, 16; prairie falcon, 1; duck hawk, 4; sparrow hawk, 1; ring-necked pheasant, 39; Am. coot, 14; ring-billed gull, 135; herring gull, 3; short-eared owl, 1; horned lark, 250; Am. magpie, 9; Am. raven, 27; w. marsh wren, 21; Am. pipit, 2; white-rumped shrike, 1; English sparrow, 300; western meadowlark, 2; thick-billed red-wing, 1500 (est.); Brewer's blackbird, 400; pale goldfinch, 115; savannah sparrow, 2; Montana junco, 2; tree sparrow, 14; song sparrow, 8; white-crowned sparrow, 10. **TOTAL**, 49 species; about 14,465 individuals.—**VANFZ T. WILSON, LEO YOUNG, MARCUS NELSON.**

OGDEN, UTAH (Birch Creek, Weber River; hollows, marsh, pine forest, foothills, woodlands).—Dec. 26; 8:30 A.M. to 5:30 P.M. Overcast; no wind; temp. 33° at start, 34° at finish. Two observers together. Total party hours, 18 (on foot); total party miles, 35. Mallard, 2; sharp-shinned hawk, 1; Cooper's hawk, 2; Am. rough-legged hawk, 1; sparrow hawk, 1; dusky grouse, 3; Calif. quail, 82; ring-necked pheasant, 79; coot, 1; Wilson's snipe, 1; ring-billed gull, 60; horned owl, 3; screech owl, 1; belted kingfisher, 5; red-shafted flicker, 15; Lewis's woodpecker, 1; downy woodpecker, 1; hairy woodpecker, 1; Steller's jay, 5; Calif. jay, 4; Am. magpie, 169; raven, 5; mountain chickadee, 25; black-capped chickadee, 28; dipper, 2; robin, 86; Townsend's solitaire, 1; golden-crowned kinglet, 25; ruby-crowned kinglet, 2; northwestern shrike, 1; English sparrow, 500; red-wing, 24; pine siskin, 159; goldfinch, 51; spotted towhee, 16; Montana junco, 214; Gambel's sparrow, 4; song sparrow, 9. **TOTAL**, 38 species; 1590 individuals.—**ROBERT ERWIN, PAUL NEWBY.**

SALT LAKE CITY, UTAH (within a radius of 7½ miles of the City and County Bldg.; canyons and benchlands 40%, water courses and open country 40%, city parks and suburban areas 20%).—Dec. 24; 8:30 A.M. to 6 P.M. Fog and smoke made visibility poor, although somewhat improved in late P.M.; ground bare and frozen; temp. 32° at start. Twenty-one observers in 7 parties. Total miles, 112 (66 by car, 46 on foot); total party hours, 55. Great blue heron, 1; black-crowned night heron, 3; mallard, 34; baldpate, 22; pintail, 10; green-winged

teal, 1; shoveller, 14; Am. merganser, 34; goshawk, 1; sharp-shinned hawk, 7; Cooper's hawk, 3; red-tailed hawk, 6; Am. rough-legged hawk, 3; golden eagle, 1; marsh hawk, 9; prairie falcon, 1; sparrow hawk, 12; ruffed grouse, 14; Calif. quail, 892; ring-necked pheasant, 153; Virginia rail, 1; coot, 7; killdeer, 36; Wilson's snipe, 15; ring-billed gull, 272; mourning dove, 1; great horned owl, 2; screech owl, 1; short-eared owl, 1; pygmy owl, 1 (R.B.S.); flicker, 86; Lewis's woodpecker, 85; red-naped sapsucker, 1; hairy woodpecker, 2; downy woodpecker, 8; horned lark, 34; Steller's jay, 45; Calif. jay, 20; magpie, 123; raven, 27; white-breasted nuthatch, 23; mountain chickadee, 3; black-capped chickadee, 160; creeper, 7; water ouzel, 7; marsh wren, 9; winter wren (?), 1 (E.R.W.); robin, 470; hermit thrush, 1 (R.B.S.); solitaire, 2; mountain bluebird, 1 (A.M.W.); golden-crowned kinglet, 18; ruby-crowned kinglet, 2; Am. pipit, 4; northwestern shrike, 2; loggerhead shrike, 1; English sparrow, 1855; meadowlark, 167; red-wing, 405; Brewer's blackbird, 436; evening grosbeak, 1 (A.M.W.); house finch, 126; rosy finch, 23; (sp.?—R.B.S.); willow goldfinch, 340; pine siskin, 910; spotted towhee, 60; gray-headed junco, 1; slate-colored junco, 1 (R.B.S.); Oregon junco, 405; pink-sided junco, 11; tree sparrow, 45; Gambel's sparrow, 185; white-crowned sparrow, 1 (R.J., C.W.L.); Harris's sparrow, 3 (R.B.S.); song sparrow, 128. **TOTAL**, 75 species; 7803 individuals.—**WM. A. BADER, DONALD BENNING, NICK CAZACOS, M. R. CHEESMAN, HAROLD GIBBS, LUCILE GILMER, RAY COWBURN, J. DONALD DAYNES, EARL HEUSER, RUBETTA JONES, LILLIAN M. LOCKERBIE, CHARLES W. LOCKERBIE, WM. PEERY, RAY ROGERS, EARNEST ROSCOE, ROBERT SELANDER, MRS. VIRGINIA STILLMAN, REX B. SNOW, ELLIS R. and DAVID WILSON, A. M. WOODBURY.**

IMPERIAL NATIONAL WILDLIFE REFUGE, ARIZ. (refuge 17 miles north of Yuma, vicinity of Imperial Dam, southeast along shores of Laguna (Mitry) Lake; lake, marsh, desert, and flooded brushland types).—Dec. 28; 8 A.M. to 6 P.M. Partly cloudy; wind NE, light; temp. 54° to 60°. Two observers, 1 party. Total hours afield, 10; total miles, 23 (3 on foot, 20 by car). Eared grebe, 3; western grebe, 3; pied-billed grebe, 15; Farallon cormorant, 96; great blue heron, 3; Am. egret, 36; Brewster's egret, 77; black-crowned night heron, 24; Canada goose, 75; lesser snow goose, 1; mallard, 9; gadwall, 11; baldpate, 12; pintail, 16; green-winged teal, 6; cinnamon teal, 1; shoveller, 125; redhead, 1; ring-necked duck, 3; lesser scaup, 1; buffle-head, 3; ruddy duck, 27; turkey vulture, 6; red-tailed hawk, 3; Harris's hawk, 1; marsh hawk, 4; sparrow hawk, 4; Gambel's quail, 51; Virginia rail, 1; sora, 1; Florida gallinule, 3; coot, 1905; killdeer, 6; spotted sandpiper, 2; greater yellow-legs, 5; Caspian tern, 1; mourning dove, 9; horned owl, 1; red-shafted flicker, 1; Meams's gilded flicker, 1; Gila woodpecker, 5; cactus woodpecker, 1; black phoebe, 6; Say's phoebe, 4; violet-green swallow, 11; tree swallow, 57; verdin, 3; house wren, 1; Bewick's wren, 1; long-billed marsh wren, 1; rock wren, 1; mockingbird, 1; western gnatcatcher, 6; ruby-crowned

kinglet, 3; phainopepla, 7; white-rumped shrike, 7; Audubon's warbler, 40; English sparrow, 5; western meadowlark, 155; house finch, 16; Abert's towhee, 1; sage sparrow, 2; Gambel's sparrow, 4. TOTAL, 63 species; 2891 individuals.—ARTHUR F. HALLORAN, FRANK B. McMURRY.

SANTA CATALINA MTS., ARIZ. (15-mile circle on south slope centering near Sabino Canyon, altitude 2400-7705 ft.; pine, fir, and live oak woodland 30%, cottonwood, willow association 30%, cultivated lands 15%, desert 15%, ponds 10%).—Dec. 17; 5:30 A.M. to 5:30 P.M. (M.S.T.). Clear and calm; temp. 25° to 80°; on top of mountain 9-in. snowdrifts. Twenty-two observers in 8 parties. Total party hours, 63½; total miles, 35½ (afoot). Pied-billed grebe, 2; Anthony's green heron, 1; mallard, 2; sharp-shinned hawk, 4; Cooper's hawk, 2; red-tailed hawk, 9; golden eagle, 1; marsh hawk, 6; prairie falcon, 1; duck hawk, 1; sparrow hawk, 10; Gambel's quail, 51; Virginia rail, 2; Florida gallinule, 1; coot, 9; killdeer, 22; Wilson's snipe, 5; white-winged dove, 2; mourning dove, 251; ground dove, 6; Inca dove, 41; road-runner, 3; screech owl, 1; horned owl, 4; hummingbird (sp.?), 2; red-shafted flicker, 148; Mearn's gilded flicker, 33; Gila woodpecker, 118; Calif. woodpecker, 3; red-naped sapsucker, 2; hairy woodpecker, 2; ladder-backed woodpecker, 4; black phoebe, 14; Say's phoebe, 13; vermilion flycatcher, 4; beardless flycatcher, 1; Steller's jay, 51; Calif. jay, 3; Arizona jay, 27; Am. raven, 24; mountain chickadee, 5; bridled titmouse, 3; verdin, 72; pygmy nuthatch, 33; house wren, 11; Bewick's wren, 14; cactus wren, 50; marsh wren, 7; cañon wren, 19; rock wren, 30; mockingbird, 24; Bendire's thrasher, 2; curve-billed thrasher, 121; crissal thrasher, 3; robin, 3; hermit thrush, 7; western bluebird, 1; western gnatcatcher, 11; plumbeous gnatcatcher, 4 (plus 10 unidentified gnatcatchers); ruby-crowned kinglet, 249; Am. pipit, 11; phainopepla, 83; loggerhead shrike, 26; plumbeous vireo, 1; Cassin's vireo, 1; orange-crowned warbler, 3; Audubon's warbler, 20; black-throated gray warbler, 1; yellow-throat, 6; English sparrow, 76; Arizona meadowlark, 25; western meadowlark, 58 (plus 6 unidentified meadowlarks); yellow-headed blackbird, 365; red-wing, 2263; Brewer's blackbird, 4075; Sonora grackle, 1; dwarf cowbird, 2; cardinal, 27; pyrrhuloxia, 11; house finch, 720; pine siskin, 6; pale goldfinch, 5; green-backed goldfinch, 36; Lawrence's goldfinch, 3; crossbill, 17; green-tailed towhee, 22; spotted towhee, 10; cañon towhee, 94; Abert's towhee, 6; lark bunting, 61; savannah sparrow, 1; vesper sparrow, 4; lark sparrow, 30; Cassin's sparrow, 1; desert sparrow, 61; Oregon junco, 52; pink-sided junco, 6; gray-headed junco, 3; red-backed junco, 13; Arizona junco, 5; chipping sparrow, 743; Brewer's sparrow, 17; black-chinned sparrow, 12; white-crowned sparrow, 2; Gambel's sparrow, 880; fox sparrow, 2; Lincoln's sparrow, 21; song sparrow, 17. TOTAL, 108 species and subspecies; 11,476 individuals.—ANDERS H. ANDERSON, BRUCE COLE, ROBERT A. DARROW, MR. and MRS. WILLIAM X. FOERSTER, MRS. E. C. GESSELL, MRS. MARGARITE GOODER, DAVID HAUSTENSTEN, EDOUARD C. JACOT, GEORGE G. JONES, MRS. LENA MARVIN, MRS.

GALE MONSON, MR. and MRS. RANDOLPH JENKS, EDWIN D. MCKEE, MR. and MRS. TAD NICHOLS, IVAN PETERS, MRS. J. D. STEELE, MR. and MRS. R. J. THORNBURG, CHARLES T. VORHIES (Tucson Natural History Society Bird Club).

TUCSON, ARIZ. (Santa Cruz River valley and vicinity; ponds and irrigation canals 20%, cultivated lands 15%, cottonwoods 30%, mesquite 25%, desert 10%).—Dec. 28; 7:30 A.M. to 6 P.M. (M.S.T.). Cloudy; wind SW, 1-7 m.p.h., to W, 8-12 m.p.h.; temp. 41° to 60°. Three observers together. Total hours, 8½; total miles, 41 (3 afoot, 38 by car). Black vulture, 37; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; marsh hawk, 4; pigeon hawk, 1; sparrow hawk, 7; Gambel's quail, 12; killdeer, 32; least sandpiper, 63; mourning dove, 59; ground dove, 5; Inca dove, 19; white-throated swift, 71; red-shafted flicker, 21; Mearn's gilded flicker, 1; Gila woodpecker, 15; red-naped sapsucker, 1; ladder-backed woodpecker, 3; black phoebe, 7; Say's phoebe, 6; vermilion flycatcher, 8; horned lark, 24; Am. raven, 9; verdin, 9; white-breasted nuthatch, 2; creeper, 1; house wren, 1; Bewick's wren, 1; cactus wren, 10; mockingbird, 1; Bendire's thrasher, 1; curve-billed thrasher, 3; crissal thrasher, 1; plumbeous gnatcatcher, 1 (plus 4 unidentified gnatcatchers); ruby-crowned kinglet, 15; Am. pipit, 7; phainopepla, 3; loggerhead shrike, 11; Hutton's vireo, 1; orange-crowned warbler, 2; Audubon's warbler, 17; black-throated gray warbler, 1; English sparrow, 87; western meadowlark, 12 (plus 63 unidentified meadowlarks); red-wing, 86; Brewer's blackbird, 362; dwarf cowbird, 1; cardinal, 2; pyrrhuloxia, 5; house finch, 232; pale goldfinch, 1; green-backed goldfinch, 15; green-tailed towhee, 1; cañon towhee, 4; Abert's towhee, 2; lark bunting, 50; savannah sparrow, 4; vesper sparrow, 13; lark sparrow, 28; desert sparrow, 3; sage sparrow, 1; chipping sparrow, 13; Brewer's sparrow, 6; white-crowned sparrow, 3; Gambel's sparrow, 363; Lincoln's sparrow, 1; song sparrow, 7. TOTAL, 68 species and subspecies; 1867 individuals. (Dec. 27; Anna's hummingbird, 1).—ALMA J. and WILLIAM X. FOERSTER, IVAN PETERS.

RENO, NEV. (Nevada Game Farm south and east to highway, south to Mt. Rose road and west to Galena Creek, Reno area including Virginia Lake and Idlewild Park, and west 5 miles on old Verdi road; marshland, irrigation ditches, and lakes 20%, coniferous foothills of Sierras 5%, city including parks 10%, desert 25%, ranchland 40%; altitude 4500-5500 ft.).—Dec. 31; 7:30 A.M. to 5:30 P.M. Clear; temp. 12° to 48°; wind W, 1-7 m.p.h.; 2-in. snow near Reno to 1 ft. at Galena Creek; all water except Truckee River and ¼ area of lakes frozen over. Total hours, 10 (6 on foot, 4 by car); total miles, 60 (5 on foot, 55 by car). Great blue heron, 2; black-crowned night heron, 1; Canada goose, 75; snow goose, 1; mallard, 1500; baldpate, 750; pintail, 50; green-winged teal, 20; redhead, 15; ring-necked duck, 1; lesser scaup, 3; ruddy duck, 11; red-breasted merganser, 1; red-tailed hawk, 2; Am. rough-legged hawk, 1; golden eagle, 1; marsh hawk, 2; sparrow hawk, 4; Calif. quail, 60; coot, 210; killdeer, 2; Wilson's snipe, 2; belted kingfisher, 1;

red-shafted flicker, 13; hairy woodpecker, 1; downy woodpecker, 1; Am. magpie, 3; Clark's nutcracker, 1; mountain chickadee, 3; creeper, 1; wren (sp.), 1; marsh wren, 1; golden-crowned kinglet, 1; ruby-crowned kinglet, 1; Am. pipit, 4; Audubon's warbler, 1; English sparrow, 165; western meadowlark, 52; red-wing, 60; Brewer's blackbird, 350; Calif. purple finch, 1; house finch, 15; goldfinch, 80; spotted towhee, 1; Oregon junco, 125; Gambel's sparrow, 60; song sparrow, 18. TOTAL, 47 species; approximately 3674 individuals. (Due to open season, ducks deserted open country and found refuge in town on Virginia and Idlewild lakes and Truckee River; hence all species seen at close range including snow goose, ring-necked duck and lesser scaup at 15 yds.)—DRYDEN KUSER, JEROME F. MARKS.

MEDINA, WASH. (and vicinity, Bellevue, Newport, Hunts Point, and Evergreen Point).—Dec. 24; 10 A.M. to 4:30 P.M. Clear; calm; temp. 30°. Total miles, 17½ (16 by car, 1½ on foot). Western grebe, 4; eared grebe, 6; pied-billed grebe, 4; double-crested cormorant, 2; great blue heron, 1; lesser snow goose, 1; white-fronted goose, 2; Hutchin's [presumably lesser Canada—Ed.] goose, 1; mallard, 22; baldpate, 572; Am. pintail, 1; lesser scaup, 7; Am. golden-eye, 5; Barrow's golden-eye, 1; bufflehead, 6; ruddy duck, 3; Am. merganser, 2; hooded merganser, 4; Cooper's hawk, 1; Calif. quail, 6; ring-necked pheasant, 1; coot, 300 (est.); killdeer, 14; Wilson's snipe, 10; glaucous-winged gull, 8; short billed gull, 2; band-tailed pigeon, 200 (est.) [no details furnished; regarded as a permanent resident by W.H., but virtually unreported in winter elsewhere in state—Ed.]; Gairdner's woodpecker, 2; red-shafted flicker, 15; Steller's jay, 3; crow, 1; Oregon chickadee, 18; chestnut-backed chickadee, 6; bush-tit, 30 (est.); Bewick's wren, 2; winter wren, 6; varied thrush, 22; robin, 300 (est.); golden-crowned kinglet, 14; Sitka kinglet, 1; cedar waxwing, 3; western meadowlark, 5; Brewer's blackbird, 12; purple finch, 6; Cassin's purple finch, 1; pine siskin, 28; spotted towhee, 11; fox sparrow, 3; Oregon junco, 50 (est.); Puget Sound sparrow, 5; golden-crowned sparrow, 2; song sparrow, 22. TOTAL, 52 species; about 1754 individuals.—W. HAGENSTEIN, JOE TINKER.

MONROE, WASH. (Woods Creek bridge, top of hill and loop east of town and back down Woods Creek valley, mouth of Woods Creek, and north shore of Skykomish River; hemlock-maple-alder woods 50%, town suburbs 10%, river shore 10%, high open brush and young fir and farmlands 30%).—Dec. 27; dawn to dusk. Lightly overcast, drops of rain in P.M.; temp. 41° at 9 A.M.; very light snow cover melted during day; wind NE, 25 m.p.h.; ice on pools and small puddles, all streams open. One observer. Total hours, 8½ (on foot); total miles, 6. Mallard, 4; killdeer, 2; red-shafted flicker, 2; downy woodpecker, 2; Steller's jay, 8; bush-tit, 28; black-capped chickadee, 34; chestnut-backed chickadee, 4; house wren, 2; winter wren, 7; Bewick's wren, 4; robin, 1; varied thrush, 20; golden-crowned kinglet, 32; evening grosbeak, 24; pine siskin, 30; spotted towhee, 11; Oregon junco, 111; song sparrow, 24.

TOTAL, 19 species; 350 individuals.—MAE E. DENNIS.

SEQUIM, WASH. (beaches and harbors along Juan de Fuca Strait from Dungeness Spit to head of Sequim Bay, and 5 miles inland along Dungeness River).—Dec. 24; 8:15 A.M. to 5:30 P.M. Clear and sunny; ground bare; no wind; fresh ponds frozen over; temp. 26° at start, 32° on return. Observers together. Hours afield, 9; total miles, 35 (5 on foot, 30 by car). Common loon, 3; Pacific loon, 15; Holboell's grebe, 1; horned grebe, 40; western grebe, 58; double-crested cormorant, 5; Brandt's cormorant, 445; Baird's cormorant, 7; great blue heron, 2; mallard, 62; baldpate, 2250; pintail, 350; green-winged teal, 28; greater scaup, 800; lesser scaup, 28; (scaup, too far to identify exactly, 1000); Am. golden-eye, 155; Barrow's golden-eye, 13; bufflehead, 288; white-winged scoter, 410; surf scoter, 450; Am. scoter, 1 (a female, studied at 10 yds., in a good light); (scoter, too far to identify exactly, 500); ruddy duck, 2; hooded merganser, 2; Am. merganser, 12; red-breasted merganser, 95; Calif. quail, 21; coot, 90; killdeer, 42; golden plover, 2 (observed at 15 yds. with good back light; no trace of black in axillary region; when flushed, wings and tail gave a uniform brown impression); black turnstone, 5; Wilson's snipe, 2; red-backed sandpiper, 120; western sandpiper, 25; sandpiper, 3; glaucous-winged gull, 680; western gull, 80; herring gull, 55; Calif. gull, 150; ring-billed gull, 24; short-billed gull, 3; Bonaparte's gull, 2; Calif. murre, 1; pigeon guillemot, 5; marbled murrelet, 1; screech owl, 1; belted kingfisher, 4; red-shafted flicker, 18; Steller's jay, 1; black-capped chickadee, 8; bush-tit, 21; red-breasted nuthatch, 4; creeper, 3; Bewick's wren, 6; winter wren, 2; robin, 45; varied thrush, 3; golden-crowned kinglet, 15; ruby-crowned kinglet, 60; northwestern shrike, 1; English sparrow, 8; western meadowlark, 28; red-wing, 4; Brewer's blackbird, 2; Calif. purple finch, 6; goldfinch, 4; Oregon towhee, 2; slate-colored junco, 18; Oregon junco, 110; golden-crowned sparrow, 5; song sparrow, 85; snow bunting, 1. TOTAL, 71 species; 8798 individuals.—ALISON B. MATHEWS, FRANK P. MATHEWS.

SPOKANE, WASH. (city parks and cemeteries, and area along Spokane River).—Dec. 24; 9 A.M. to 4 P.M. Freezing mist falling all day, cloud ceiling in the tallest tree tops; temp. 28° to 32°; no wind; 2-in. snow. Nine observers in 4 parties. Total miles, about 45 (on foot). Great blue heron, 2; mallard, 943; Am. golden-eye, 10; Am. merganser, 4; Hungarian partridge, 1; bob-white, 20; Calif. quail, 37; ring-necked pheasant, 13; rock dove, 1200 (est.); snowy owl, 1; flicker, 41; downy woodpecker, 1; black-capped chickadee, 90; red-breasted nuthatch, 65; pygmy nuthatch, 152; brown creeper, 1; robin, 88; golden-crowned kinglet, 61; Bohemian waxwing, 200 (est.); English sparrow, 49; crossbill, 34; goldfinch, 1; towhee, 2; junco, 28; fox sparrow, 2; song sparrow, 12. TOTAL, 26 species; about 3058 individuals.—MARIE COYNE, MATTIE BURKE, MRS. A. I. BUCHECKER, BELLE BOTHWELL, MR. and MRS. ARTHUR CLOUGH, MRS. CORA ROBERTS, MR. and MRS. WM. B. WRIGHT (Spokane Bird Club).

TACOMA, WASH. (tidal flats, waterfront, and surrounding woodlands).—Dec. 27; 10 A.M. to 4:45 P.M. Fair; temp. 31° to 38°; ground bare; nearly all fresh water frozen; wind, 2-15 m.p.h. Two observers together. Total hours, 6¾ (on foot); total miles, 5. Horned grebe, 1; western grebe, 2; great blue heron, 1; Am. pintail, 3; ring-necked duck, 2; scaup, 3200+; Am. golden-eye, 60; Barrow's golden-eye, 10; surf scoter, 4; Am. scoter, 1; Am. merganser, 5; red-breasted merganser, 13; Cooper's hawk, 1; sparrow hawk, 2; coot, 2; killdeer, 67; black turnstone, 3; Wilson's snipe, 4; sandpiper (sp.?), 500+; glaucous-winged gull, 111; Calif. gull, 13; Bonaparte's gull, 10; western gull, 1; herring gull, 71; rock dove, 78; black-capped chickadee, 3; bush-tit, 127; winter wren, 4; Bewick's wren, 1; robin, 5; English sparrow, 7; western meadowlark, 10; Calif. purple finch, 2; redpoll, 25; pine siskin, 1; song sparrow, 9. TOTAL, 36 species; about 4359 individuals.—JOHN H. LARSEN, JR., JOHN FRIARS.

WENATCHEE (CHELAN CO.), WASH. (Wenatchee to Tree Fruit Branch Experiment Station, to Columbia River, south along west bank to bridge; orchards and weedy fields 60%, banks of Columbia River 40%).—Dec. 31; 10:30 A.M. to 6 P.M. Cloudy; light NW wind at times; temp. about 26°. Total hours afield, 7½; total miles, approx. 10 (on foot). Common loon, 1; western grebe, 1; great blue heron, 1; mallard, 1500; baldpate, 1; pintail, 3; green-winged teal, 100; ring-necked duck, 1; canvas-back, 2; lesser scaup, 200; Am. golden-eye, 200; buffle-head, 35; Am. merganser, 2; Cooper's hawk, 1; rough-legged hawk, 1; golden eagle, 1; sparrow hawk, 3; Calif. quail, 50; ring-necked pheasant, 2; coot, 3; killdeer, 1; western sandpiper, 5; gulls (sp.?), 19; mourning dove, 18; long-eared owl, 1; belted kingfisher, 1; red-shafted flicker, 6; golden-crowned kinglet, 1; ruby-crowned kinglet, 1; Am. pipit, 1; northwestern shrike, 1; English sparrow, 500; western meadowlark, 1; house finch, 200; goldfinch, 50; spotted towhee, 1; Oregon junco, 100; white-crowned sparrow, 250; fox sparrow, 2; song sparrow, 100. TOTAL, 40 species; about 3367 individuals.—H. N. METCALF.

WILLAPA NATIONAL WILDLIFE REFUGE, ILWACO, WASH. (same area as 1940 and subsequent counts; around east, south, and west boundary of Willapa Refuge, tidal bays, shore-line, edges of alder-spruce-hemlock woods).—Dec. 28; 8 A.M. to 5 P.M. Weather changeable and chilly; temp. 30° to 50°. One observer. Total miles, 40 (10 on foot, 30 by car). Pacific loon, 14; eared grebe, 3; western grebe, 70; pied-billed grebe, 3; Brandt's cormorant, 200; great blue heron, 27; Canada goose, 160; black brant, 1850; mallard, 175; baldpate, 360; Am. pintail, 550; green-winged teal, 800; canvas-back, 40; scaup, 400; Am. golden-eye, 35; buffle-head, 530; white-winged scoter, 450; surf scoter, 50; ruddy duck, 170; hooded merganser, 4; Am. merganser, 15; red-breasted merganser, 12; goshawk, 2; red-shouldered hawk, 1; rough-legged hawk, 2; bald eagle, 1; duck hawk, 3; sparrow hawk, 4; ruffed grouse, 5; coot, 45; killdeer, 23; Wilson's snipe, 7; least sandpiper, 100; red-backed sandpiper, 3500;

sanderling, 25,500 (est.); western gull, 400; herring gull, 60; short-billed gull, 8; belted kingfisher, 11; red-shafted flicker, 15; Lewis's woodpecker, 4; Steller's jay, 6; raven, 4; northwestern crow, 650; Oregon chickadee, 65; winter wren, 50; varied thrush, 9; thrush (sp.?), 14; Sitka kinglet, 350; western meadowlark, 14; Brewer's blackbird, 60; spotted towhee, 6; Oregon junco, 28; song sparrow, 14. TOTAL, 54 species; 36,879 individuals.—W. GRANT MCFARLAND.

EUGENE, ORE. (edge of town to Fern Ridge Dam and around lake, campus east and south, Spencer's Butte road to lookout, and west of town 2 miles, McKenzie River from Coburg Br. to Hayden Br.; Willamette River from Ferry St. Br. to Springfield Br.; riverbottom 22%, open fields, pasture, and orchard 35%, Douglas fir forest 8%, oak woods and open hillside 13%, town 13%, lake edge 9%).—Dec. 31; 10 A.M. to 5 P.M. Overcast; temp. 45° to 50°; wind ssw, 8-18 m.p.h. Thirty observers in 4 parties. Total hours, 26; total miles, 83 (19 on foot, 64 by car driving slowly). Pied-billed grebe, 1; great blue heron, 3; Canada goose, 634; cackling goose, 3 (very small size distinctly seen—R.R.H.); mallard, 330; pintail, 10; green-winged teal, 2; scaup (sp.?), 30; ruddy duck, 1; Cooper's hawk, 3; red-tailed hawk, 6; marsh hawk, 2; sparrow hawk, 21; bob-white, 8; Calif. quail, 12; ring-necked pheasant, 19; coot, 2; killdeer, 30; spotted sandpiper, 2; Calif. gull, 3; rock dove, 166; belted kingfisher, 3; red-shafted flicker, 69; red-breasted sapsucker, 1; hairy woodpecker, 4; downy woodpecker, 6; Steller's jay, 28; Calif. jay, 1; crow, 66; black-capped chickadee, 46; chestnut-backed chickadee, 25; bush-tit, 30; white-breasted nuthatch, 3; red-breasted nuthatch, 3; creeper, 9; w. winter wren, 13; Bewick's wren, 11; robin, 130; varied thrush, 20; hermit thrush, 12; w. golden-crowned kinglet, 191; ruby-crowned kinglet, 104; Am. pipit, 105; cedar waxwing, 1; myrtle warbler, 2; Audubon's warbler, 13; English sparrow, 51; western meadowlark, 36; red-wing, 1; Brewer's blackbird, 113; Calif. purple finch, 10; pine siskin, 26; goldfinch, 20; spotted towhee, 32; savannah sparrow, 20; Oregon junco, 513; white-crowned sparrow, 60; golden-crowned sparrow, 72; fox sparrow, 8; song sparrow, 86. TOTAL, 60 species; approximately 3232 individuals. (Several thousand ducks were seen on the lake, but could not be definitely identified. Seen in the area Dec. 26: bald eagle, 1; mourning dove, 1).—Leaders: R. R. HUESTIS, HELEN PETROSKEY, HELEN KILPATRICK, ADA SHUEY, RUTH HOPSON. Also BLANCH BECKETT, AARON KOLKIN, MYRTIE HAMLIN, DONALD and ANNABELLE DOD, GLADYS LEES, BILL DODDS, BERTHA DECKMAN, CLIFFORD and JOHN C. GREGOR, A. RAY WISEMAN, FRANK P. SIPE, WAYNE BAILEY, BUFORD BALE, ROBT. SULLIVAN, PALM STOUT, JANE HALL, ORVILLE COLLYER, ELEANOR HINES, BEN BRUETT, CATHERINE DUNLOP, BOB MULLINS, ROY ANDREWS, DORVIN DUDECK, LAURA STILLMAN (Natural History Society of Eugene).

KLAMATH BASIN, ORE. (lower tip of Klamath Lake, Link River, Klamath River south to Keno, thence southeast to northwest corner of Lower

Klamath Lake National Wildlife Refuge; lake, marsh, and river 90%, brushy hillsides 10%.—Dec. 24; 8 A.M. to 6:30 P.M. Overcast, clearing in P.M.; light S wind; temp. 32° to 40°; lakes partially thawed following freeze-up. Three observers together. Total miles, 36 (30 by car, 6 on foot). Western grebe, 1; pied-billed grebe, 25; white pelican, 3; great blue heron, 7; Am. egret, 20; black-crowned night heron, 150; whistling swan, 502; Canada goose, 566; lesser Canada goose, 310; cackling goose, 650; white-fronted goose, 916; lesser snow goose, 3; mallard, 32; gadwall, 1; baldpate, 9; pintail, 213; green-winged teal, 34; shoveller, 3991; redhead, 121; ring-necked duck, 11; canvasback, 141; lesser scaup, 556; Barrow's golden-eye, 9; Am. golden-eye, 263; buffle-head, 155; ruddy duck, 2994; Am. merganser, 111; hooded merganser, 1; red-tailed hawk, 8; rough-legged hawk, 5; golden eagle, 2; bald eagle, 1; marsh hawk, 28; prairie falcon, 1; sparrow hawk, 3; valley quail, 21; ring-necked pheasant, 4; Virginia rail, 1; coot, 279; Calif. gull, 546; short-eared owl, 4; belted kingfisher, 2; red-shafted flicker, 6; downy woodpecker, 1; horned lark, 6; magpie, 27; mountain chickadee, 8; bush-tit, 10; white-breasted nuthatch, 1; pygmy nuthatch, 25; long-billed marsh wren, 17; robin, 512; Townsend's solitaire, 9; golden-crowned kinglet, 12; English sparrow, 150; red-wing, 1; Brewer's blackbird, 351; lark sparrow, 1; Oregon junco, 12; Gambel's sparrow, 20; song sparrow, 41. TOTAL, 61 species and subspecies; 13,890 individuals. Late afternoon flight from refuge north to fields included.—MILTON MUELLER, PHM 3/c, LT. and Mrs. OLIVER K. SCOTT, USNR.

MALHEUR NATIONAL WILDLIFE REFUGE, BURNS, ORE. (from Grain Camp south, including Krumbo, Boca Lake, P-Ranch, Blitzen River and Frenchglen areas, meadows, creek bottoms, lake shores, sage-brush flats, swamps, and spring branches; various short trips made on foot).—Dec. 30; 9 A.M. to 5 P.M. Slight overcast in A.M. with 1-in. snow in sheltered spots; an occasional slight breeze; temp. 24° at start, 36° at return. Four observers in 2 parties. Total party hours, 30; total party miles, 63 (54 by car, 9 on foot). Great blue heron, 8; black-crowned night heron, 1; whistling swan, 15; Canada goose, 191; mallard, 325; gadwall, 20; baldpate, 17; Am. pintail, 8; green-winged teal, 116; wood duck, 2; ring-necked duck, 14; canvasback, 2; lesser scaup, 5; Am. golden-eye, 43; Barrow's golden-eye, 16; buffle-head, 2; ruddy duck, 12; hooded merganser, 6; Am. merganser, 17; red-tailed hawk, 7; Am. rough-legged hawk, 49; ferruginous rough-leg, 1; golden eagle, 11; bald eagle, 2; marsh hawk, 25; prairie falcon, 3; duck hawk, 1; sparrow hawk, 2; sage hen, 7; European partridge, 3; valley quail, 90; ring-necked pheasant, 99; coot, 31; Wilson's snipe, 3; horned owl, 5; long-eared owl, 1; belted kingfisher, 6; red-shafted flicker, 36; downy woodpecker, 1; horned lark, 2; Am. magpie, 54; Am. raven, 6; dipper, 2; marsh wren, 2; rock wren, 1; robin, 7; Townsend's solitaire, 3; golden-crowned kinglet, 3; ruby-crowned kinglet, 4; northwestern shrike, 1; loggerhead shrike, 2 (we are firmly of the opinion that both shrikes are wintering in this

location; we hope to take a few specimens for accurate identification); Brewer's blackbird, 27; pale goldfinch, 60; vesper sparrow, 1 (observed both in flight and perching; showed the white outer tail feathers); Shufeldt's junco, 180; Lincoln's sparrow, 1 (observed both in flight and perching; had a definite buff-colored breast band); song sparrow, 81. TOTAL, 57 species; 1640 individuals.—GEORGE M. BENSON, MARCUS J. HAINES, HARDING HANSON, JOHN C. SCHARFF (Fish and Wildlife Service).

PORTLAND, ORE. (15-mile diameter circle, centered downtown, same as 1938 and subsequent counts; brushy lowlands 15%, lakes and rivers 10%, woodlands, 30%, farmland, 25%, residential areas 20%).—Dec. 31. Fair, high fog ending in light rain; temp. 32° to 38°; wind SW, 0-5 m.p.h. Sixty-eight observers in 16 parties. Total hours, 129 (110 afoot, 12 by auto, 7 by bicycle); total miles, 316 (129 afoot, 152 by auto, 35 by bicycle). Common loon, 1; western grebe, 1; pied-billed grebe, 4; double-crested cormorant, 51; great blue heron, 39; green heron, 2 [no details—Ed.]; Canada goose, 411; mallard, 876; gadwall, 50; European widgeon, 2; baldpate, 5690; pintail, 232; green-winged teal, 42; shoveller, 4; redhead, 6; ring-necked duck, 6; lesser scaup, 66; buffle-head, 35; ruddy duck, 1; Am. merganser, 31; ducks, species undet., 2011; sharp-shinned hawk, 5; red-tailed hawk, 4; pigeon hawk, 1; sparrow hawk, 14; sooty grouse, 1; ruffed grouse, 2; bob-white, 7; Calif. quail, 13; ring-necked pheasant, 92; coot, 388; killdeer, 80; Wilson's snipe, 6; glaucous-winged gull, 240; western gull, 2; herring gull, 128; Calif. gull, 193; ring-billed gull, 107; short-billed gull, 410; gulls, species undet., 1203; band-tailed pigeon, 9 [no details—Ed.]; mourning dove, 2; short-eared owl, 1; belted kingfisher, 6; red-shafted flicker, 209; pileated woodpecker, 1; Lewis's woodpecker, 2; red-breasted sapsucker, 1; Harris's woodpecker, 7; Gairdner's woodpecker, 48; Steller's jay, 36; Calif. jay, 2; crow, 283; black-capped chickadee, 477; chestnut-backed chickadee, 151; bush-tit, 366; white-breasted nuthatch, 11; red-breasted nuthatch, 3; brown creeper, 14; winter wren, 101; Bewick's wren, 51; robin, 1032; varied thrush, 161; hermit thrush, 5; bluebird, 12; Townsend's solitaire, 1; golden-crowned kinglet, 617; ruby-crowned kinglet, 56; pipit, 192; cedar waxwing, 114; Hutton's vireo, 2; lutescent warbler, 1 [no details—Ed.]; myrtle warbler, 6; Audubon's warbler, 41; English sparrow, 742; meadowlark, 50; red-wing, 155; Brewer's blackbird, 1173; evening grosbeak, 4; purple finch, 227; house finch, 72; pine siskin, 267; willow goldfinch, 142; crossbill, 50; spotted towhee, 136; slate-colored junco, 18; Oregon junco, 2461; white-crowned sparrow, 11 [subsp.?—Ed.]; golden-crowned sparrow, 110; fox sparrow, 30; song sparrow, 790. TOTAL, 89 species; approximately 33,747 individuals.—MR. and MRS. J. W. C. WILLIAMS, HERBERT ADAMS, MR. and MRS. FRANK C. BARTLETT, NORBERT LEUFOLD, DEAN MCBRIDE, LEON ROTTENBURG, C. L. MARSHALL, MR. and MRS. T. D. KIRKPATRICK, CLYDE L. KELLER, WALDO EK, MR. and MRS. BEN F. LAYMAN, MRS. HAROLD SOOYSMITH, MRS. F. C. BLAKESLEE, O. E. WHEELER, MRS. CHRISTINE MORGAN, MELLA WHITE, MRS. J. SARGENT, MRS.

ZIMMERMAN, MRS. DELIA KEENEY, MRS. SUSIE NICHOLSON, MRS. ESTELLA HAMMAN, ISABEL WILDES, JOYCE WILDES, ALBERT MARSHALL, LEO F. SIMON, LOTUS SIMON, J. R. WILLIAMS, HENRY STEINBRUEGGE, JEAN PECORE, MRS. J. D. SIMON, KENT SIMON, ALVA OAKES, MRS. SCHRAMM, W. A. ELIOT, ARLIE SEAMAN, NORMA G. SEAMAN, HAROLD S. GILBERT, KENNETH LEATHERMAN, EARL A. MARSHALL, NANCY MARSHALL, MRS. A. L. MILLS, CARL JACOBSEN, MRS. T. W. ADAMS, MRS. L. J. MERRILL, MR. and MRS. F. N. FINCH, MRS. R. GITTINGS, MR. and MRS. W. H. CROWELL, T. T. MUNGER, GORDON BEEBE, DOUGLAS KAUFMAN, MALCOLM POOLE, P. E. LEWIS, J. J. PARKER, MRS. C. B. HAYS, RICHARD WEEKS, MRS. A. L. CAMPBELL, B. A. THAXTER, MRS. ROBT. LIVINGSTONE, GERALD BEEBE, ERNEST F. TUCKER, E. F. TUCKER, JR., MRS. R. A. WAGNER (Oregon Audubon Society).

BIG BEAR LAKE, CALIF. (same area as 1941 and subsequent counts; pine forest 30%, mountain lakes 22%, mountain meadow 2%, pinyons 1%, desert scrub 18%, desert willows and cottonwood 9%, alders, oaks, and canyon stream 10%, chaparral 8%).—Dec. 30. Clear; wind 8-20 m.p.h.; temp. below freezing in lake area day and night; 2-ft. snow on ground and ice and snow in trees in area south of Bear and Baldwin lakes, snow in patches on north side of lakes; most of Baldwin and 1/4 of Bear Lakes frozen. Seven observers, 2 parties. Total hours, 16 (on foot); total miles, 15 (on foot). Great blue heron, 4; baldpate, 400; pintail, 500; cinnamon teal, 390; shoveller, 300; redhead, 100; canvas-back, 300; lesser scaup, 100; Am. merganser, 100; red-breasted merganser, 10; Cooper's hawk, 1; red-tailed hawk, 6; ferruginous rough-leg, 1; golden eagle, 2; osprey, 2 (seen separately by both parties; 1 bird observed at close range.—J.H.C.); coot, 30,000; killdeer, 5; Calif. gull, 4; red-shafted flicker, 1; red-naped sapsucker, 1; Williamson's sapsucker, 3; ladder-backed woodpecker, 4; Nuttall's woodpecker, 1 (north of Bear Lake—S., D., P.); white-headed woodpecker, 2; Steller's jay, 6; Calif. jay, 6; Am. raven, 2; crow, 1; Clark's nutcracker, 6; piñon jay, 3; mountain chickadee, 13; white-breasted nuthatch, 4; pygmy nuthatch, 30; brown creeper, 2; house wren, 1; Bewick's wren, 1; cactus wren, 1; rock wren, 1; Calif. thrasher, 1; Townsend's solitaire, 1; golden-crowned kinglet, 3; ruby-crowned kinglet, 4; loggerhead shrike, 1; Audubon's warbler, 1; English sparrow, 4; western meadowlark, 3; house finch, 9; goldfinch, 1; spotted towhee, 1; Oregon junco, 33; white-crowned sparrow, 50. TOTAL, 51 species; about 32,426 individuals.—Mr. and Mrs. O. M. STULTZ, CAROLINE A. DAUGHERTY, MR. and MRS. J. H. COMBY, LAURA GREELY, BOB PYLE.

FRESNO, CALIF. (area 5 miles in diameter at Lanes Bridge on the San Joaquin River 10 miles north of Fresno, in the San Joaquin valley; open plains 20%, riverbottom and thickets 80%).—Dec. 31; 7:50 A.M. to 5:20 P.M. Heavy fog until 10:30 A.M.; warm and sunny until 4 P.M.; high fog thereafter; temp. 39° at start, 47° maximum. Total hours, 9½; total miles, 13 (6 on foot, 7 by car). Pied-billed grebe, 11; great blue heron, 2; Am. egret, 4; Anthony's green heron, 2; black-crowned night heron, 6; mallard, 2; baldpate, 1; wood duck,

4; ring-necked duck, 6; canvas-back, 34; hooded merganser, 2; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 8; red-bellied hawk, 1; golden eagle, 1; marsh hawk, 2; prairie falcon, 1; sparrow hawk, 8; valley quail, 19; Florida gallinule, 2; coot, 30; killdeer, 8; greater yellow-legs, 8; mourning dove, 5; road-runner, 1; horned owl, 3; short-eared owl, 1; white-throated swift, 85 (feeding above river); belted kingfisher, 3; red-shafted flicker, 26; downy woodpecker, 2; Nuttall's woodpecker, 7; black phoebe, 10; Say's phoebe, 5; horned lark, 10; Calif. jay, 23; plain titmouse, 8; bush-tit, 13; creeper, 3; wren-tit, 2; house wren, 4; Bewick's wren, 10; rock wren, 1; mockingbird, 13; Calif. thrasher, 1; hermit thrush, 4; western bluebird, 6; mountain bluebird, 15; golden-crowned kinglet, 3; ruby-crowned kinglet, 58; Am. pipit, 8; loggerhead shrike, 1; orange-crowned warbler, 4; Audubon's warbler, 9; yellow-throat, 2; English sparrow, 18; western meadowlark, 11; Brewer's blackbird, 3; house finch, 187; willow goldfinch, 26; green-backed goldfinch, 8; spotted towhee, 7; brown towhee, 8; savannah sparrow, 2; lark sparrow, 4; Oregon junco, 22; Gambel's sparrow, 82; golden-crowned sparrow, 8; fox sparrow, 2; Lincoln's sparrow, 1; song sparrow, 6. TOTAL, 72 species; about 905 individuals.—W. B. MINTURN.

LOS ANGELES, CALIF. (territory same as preceding 7 years, taking in short stretch of seashore 15%, marsh 15%, campus and 5 city parks 15%, canyons 25%, chapparal 20%, open country 5%, reservoirs 3%, river area 2%).—Dec. 27; 7:30 A.M. to 5:30 P.M. Fair in A.M., clouds light to completely overcast by 1 P.M.; temp. 49° to 57°; wind SE, 10-12 m.p.h.; ground fairly moist and covered with new grass growth in open. Thirty observers in 12 parties. Total hours, 80 (71 on foot, 9 by car); total miles, 119 (51 on foot, 68 by car). Pacific loon, 8; red-throated loon, 2; eared grebe, 4; western grebe, 253; pied-billed grebe, 39; brown pelican, 65; double-crested cormorant, 29; great blue heron, 7; Am. egret, 27; snowy egret, 29; Anthony's green heron, 2; black-crowned night heron, 49; Am. bittern, 3; white-faced glossy ibis, 4; mallard, 2; gadwall, 1; baldpate, 8; pintail, 79; green-winged teal, 5; shoveller, 4; redhead, 1; ring-necked duck, 1; canvas-back, 8; lesser scaup, 544; white-winged scoter, 4; surf scoter, 172; ruddy duck, 165; Am. merganser, 1; red-breasted merganser, 25; turkey vulture, 2; sharp-shinned hawk, 9; Cooper's hawk, 5; red-tailed hawk, 14; ferruginous rough-leg, 2; golden eagle, 1; marsh hawk, 3; duck hawk, 1; pigeon hawk, 1; sparrow hawk, 34; valley quail, 119; Calif. clapper rail, 1; coot, 668; semipalmated plover, 17; killdeer, 188; black-bellied plover, 438; ruddy turnstone, 1; black turnstone, 4; Hudsonian curlew, 22; spotted sandpiper, 8; willet, 260; greater yellow-legs, 12; least sandpiper, 208; red-backed sandpiper, 1; long-billed dowitcher, 127; western sandpiper, 353; marbled godwit, 130; sanderling, 68; avocet, 1; glaucous-winged gull, 88; western gull, 114; herring gull, 4; Calif. gull, 80; ring-billed gull, 2335; Bonaparte's gull, 406; Heermann's gull, 39; Caspian tern, 2; band-tailed pigeon, 6; mourning dove, 238; Chinese spotted dove, 137; ringed

turtle dove, 8; road-runner, 2; horned owl, 1; short-eared owl, 1; white-throated swift, 65; Anna's hummingbird, 119; belted kingfisher, 7; red-shafted flicker, 50; Calif. woodpecker, 26; red-breasted sapsucker, 2; downy woodpecker, 3; Nuttall's woodpecker, 1; black phoebe, 48; Say's phoebe, 11; gray flycatcher, 1 (only wintering *Empidonax*; closely observed—O.M.S.); horned lark, 50; tree swallow, 20; Calif. jay, 113; plain titmouse, 25; bush-tit, 296; wren-tit, 154; Bewick's wren, 31; long-billed marsh wren, 5; cañon wren, 1; mockingbird, 63; Calif. thrasher, 108; robin, 61; hermit thrush, 28; western bluebird, 13; western gnatcatcher, 14; golden-crowned kinglet, 5 (rarely seen in this area; this year observed in many places); ruby-crowned kinglet, 63; Am. pipit, 25; cedar waxwing, 103; loggerhead shrike, 53; Hutton's vireo, 3; dusky warbler, 4; Audubon's warbler, 1599; black-throated gray warbler, 1 [no details—Ed.]; Townsend's warbler, 1; yellow-throat, 8; English sparrow, 153; western meadowlark, 146; red-wing, 81; Brewer's blackbird, 1429; Calif. purple finch, 32; Cassin's purple finch, 2; house finch, 1634; pine siskin, 9; willow goldfinch, 23; green-backed goldfinch, 237; spotted towhee, 34; brown towhee, 297; savannah sparrow, 12; Belding's sparrow, 25; large-billed sparrow, 3; rufous-crowned sparrow, 6; Oregon junco, 74; chipping sparrow, 3; Gambel's sparrow, 236; golden-crowned sparrow, 52; fox sparrow, 7; song sparrow, 60. TOTAL, 132 species and subspecies; about 15,435 individuals.—W. A. and CHRISTINE KENT, MR. and MRS. GEO. T. HASTINGS, MRS. BROTHERS, JEAN BROTHERS, MRS. CLARA JONES, WILLIAM BONYNGE, MRS. O. M. STULTZ, LAURA GREELY, MRS. MAY WAIT, MRS. ALMA MASON, MRS. MYRTLE K. YOST, PAUL W. COLBURN, SGT. ROBERT PYLE, ENID MICHAEL, W. D. QUATTLEBAUM, BESS M. HOFFMAN, RUBY CURRY, MR. and MRS. W. SCOTT LEWIS, RAYMOND STOFFEL, JACK COLLISTER, MR. and MRS. BILL HOOD, ANDRE GUIDE, BILL DAWSON, FERN SHELFORD, CLARA WEEDMARK, CAROLINE H. DAUGHERTY (Los Angeles Audubon Society, Pasadena Audubon Society, Southwest Bird Study Club).

MARYSVILLE, CALIF. (fields and woods in river-bottoms northwest of Marysville for 2 miles, unimproved portion of Ellis Lake in outlying district within Marysville city limits for 1 mile, river-bottoms east of Marysville for 1 mile, public parks in Marysville, irrigated farmland north and south of Marysville for 10 miles; open farmland 60%, town suburbs 10%, deciduous farm woodlots 15%, cattail marsh 15%).—Dec. 31; 9 A.M. to 5 P.M. Fair; temp. 50° to 55°; wind NW, 1-7 m.p.h. Ten observers in 5 parties. Total hours, 41 (38 on foot, 3 by car); total miles, 66 (56 on foot, 10 by car). Pacific loon, 1 (R.A.); pied-billed grebe, 3; great blue heron, 6; Am. egret, 20; snowy egret, 1; Anthony's green heron, 2; black-crowned night heron, 4; whistling swan, 40; lesser Canada goose, 822; white-fronted goose, 28; mallard, 13; pintail, 1; cinnamon teal, 14; turkey vulture, 6; Cooper's hawk, 1; red-tailed hawk, 5; golden eagle, 2; marsh hawk, 9; sparrow hawk, 25; hawk (sp.), 4; Calif. quail, 15; ring-necked pheasant, 10; coot, 1700; killdeer, 48; willet, 2; least sandpiper, 940; Calif. gull, 5; mourning

dove, 52; barn owl, 4; burrowing owl, 2; belted kingfisher, 1; red-shafted flicker, 45; Calif. woodpecker, 25; downy woodpecker, 6; Nuttall's woodpecker, 2; black phoebe, 6; tree swallow, 14; Calif. jay, 14; crow, 52; yellow-billed magpie, 57; plain titmouse, 3; bush-tit, 30; Bewick's wren, 2; mockingbird, 19; robin, 4; western bluebird, 21; mountain bluebird, 4; golden-crowned kinglet, 1; ruby-crowned kinglet, 11; Am. pipit, 490; loggerhead shrike, 15; Hutton's vireo, 52; myrtle warbler, 832; Audubon's warbler, 512; English sparrow, 180; western meadowlark, 546; red-wing, 49; Brewer's blackbird, 1384; purple finch, 3; house finch, 29; goldfinch, 72; spotted towhee, 11; brown towhee, 3; savannah sparrow, 195; Oregon junco, 197; white-crowned sparrow, 324; golden-crowned sparrow, 289. TOTAL, 67 species; 9305 individuals.—GERTRUDE CABLE, J. C. RIES, CHARLES RIES, MRS. BESSIE LAMBERSKIN, EVELYN LAMBERSKIN, MRS. AMY COLLINS, TUNIA VANDENBOUT, J. R. BEESON, RAY ANDERSON, BERNARD FONTANA.

MONTEREY PENINSULA REGION, CALIF. (from Carmel River-mouth lagoon north along waterfront to Pebble Beach, thence northeast up section of pine-filled canyon at north city limit of Carmel and return to lagoon via village street; Point Lobos; area in vicinity of Carmel Valley road at a point 3.3 miles east of intersection with State Highway No. 1. All counts made within 5¼-mile diameter and only along routes, or in particular areas, indicated; none made during auto transportation between places; bay exposed to Pacific Ocean 15%, beach 8%, river-mouth lagoon 4%, brackish ponds and tule swamp 8%, rocky shore 6%, open fields 10%, brushland 27%, Monterey pine association 7%, live oaks 2%, golf course 8%, gardens and village street 5%).—Dec. 26. Clear in A.M., cloudy in P.M.; temp. 42° to 55°; wind E shifting to SW, 5-15 m.p.h.; ground bare. Total hours, 10; total miles, 8½ (on foot). Common loon, 1; Pacific loon, 2; red-throated loon, 1; Holboell's grebe, 3; horned grebe, 9; eared grebe, 7; western grebe, 70; pied-billed grebe, 5; brown pelican, 49; Brandt's cormorant, 49; pelagic cormorant, 38; great blue heron, 1; black-crowned night heron, 1; Canada goose, 2; snow goose, 1; mallard, 10; pintail, 215; green-winged teal, 6; shoveller, 4; lesser scaup, 7; goldeneye, 1; white-winged scoter, 11; surf scoter, 71; ruddy duck, 12; red-breasted merganser, 9; sharp-shinned hawk, 1; red-tailed hawk, 2; red-shouldered hawk, 1; marsh hawk, 1; sparrow hawk, 3; Calif. quail, 20; pheasant, 1; Virginia rail, 5; sora, 3; coot, 174; black oyster-catcher, 6; snowy plover, 38; killdeer, 16; black turnstone, 3; Wilson's snipe, 4; least sandpiper, 1; sanderling, 225; glaucous-winged gull, 227; western gull, 178; herring gull, 88; Calif. gull, 116; short-billed gull, 132; ancient murrelet, 1; barn owl, 2; horned owl, 1; burrowing owl, 1; Anna's hummingbird, 4; red-shafted flicker, 3; hairy woodpecker, 2; black phoebe, 14; Say's phoebe, 7; horned lark, 5; Calif. jay, 1; crow, 3; chestnut-backed chickadee, 7; bush-tit, 91; pygmy nuthatch, 5; wren-tit, 7; house wren, 6; winter wren, 3; Bewick's wren, 5; long-billed marsh wren, 2; Calif. thrasher, 2; robin, 3; hermit thrush, 3; blue-gray

gnatcatcher, 1; golden-crowned kinglet, 1; ruby-crowned kinglet, 8; pipit, 26; loggerhead shrike, 2; Hutton's vireo, 1; myrtle warbler, 5; Audubon's warbler, 40; Townsend's warbler, 5; yellow-throat, 3; English sparrow, 2; western meadowlark, 11; red-wing, 200; Brewer's blackbird, 145; purple finch, 4; house finch, 40; spotted towhee, 2; savannah sparrow, 3; Oregon junco, 2; white-crowned sparrow, 59; golden-crowned sparrow, 7; fox sparrow, 7; Lincoln's sparrow, 4; song sparrow, 13. TOTAL, 94 species; 2599 individuals. (Note: names used refer to species as a whole and do not imply any particular racial forms).—LAIDLAW WILLIAMS.

NAPA, CALIF. (Tulocay Cemetery, full length of Henry Lane, Bush Creek from waterworks to Little Trancas, along road to Big Trancas, and up Napa River $\frac{3}{4}$ mile; upland pasture 50%, wooded creek bed 30%, lightly wooded upland 20%).—Dec. 31. Clear, cloudy in P.M.; temp. 34° to 55°; no wind. Eight observers in 3 parties. Total miles, 10; total hours, 10. Canvas-back, 2; turkey vulture, 9; sharp-shinned hawk, 3; red-bellied hawk, 1; ferruginous rough-leg, 1; marsh hawk, 1; sparrow hawk, 12; Calif. quail, 93; mountain quail, 1; ring-necked pheasant, 2; western gull, 1; band-tailed pigeon, 2; Anna's hummingbird, 3; kingfisher, 1; red-shafted flicker, 49; Calif. woodpecker, 36; hairy woodpecker, 2; downy woodpecker, 2; black phoebe, 10; Say's phoebe, 2; Steller's jay, 4; Calif. jay, 11; crow, 4; plain titmouse, 14; bush-tit, 114; white-breasted nuthatch, 3; wren-tit, 1; Bewick's wren, 1; robin, 55; varied thrush, 6; hermit thrush, 1; western bluebird, 11; golden-crowned kinglet, 5; ruby-crowned kinglet, 37; Am. pipit, 60; cedar waxwing, 25; loggerhead shrike, 4; Audubon's warbler, 9; Townsend's warbler, 3; English sparrow, 3; western meadowlark, 246; Brewer's blackbird, 45; house finch, 63; green-backed goldfinch, 64; spotted towhee, 12; brown towhee, 45; savannah sparrow, 98; Oregon junco, 164; white-crowned sparrow, 103; golden-crowned sparrow, 33; fox sparrow, 1; Lincoln's sparrow, 2; song sparrow, 4. TOTAL, 53 species; 1484 individuals.—ALICE ACKLEY, ESTHER SYM HENRIE, RALPH GRISWOLD, MERVYN MANASSE, CARL FRANCO, GEORGE MATTOS, LEE MCCANN, LARRY DENT.

PALO ALTO, CALIF. (Union Cemetery, Redwood; Menlo Country Club and circuit of Eleanor Drive; La Honda Road from Skyline Drive, refuge, and Searles Lake; Sandhill Road; Stanford campus (incidental); Palo Alto Yacht Club at Frisco Bay; open suburban areas 65%, hillside road through redwoods 15%, artificial fresh-water ponds and marsh 15%, yacht channel and brackish marsh 5%).—Dec. 23; 10 A.M. to 6 P.M. Heavy fog previous to start, partly cloudy, then cloudy in P.M.; calm; temp. 57° to 65°; ground very muddy. Ten miles on foot; 18 miles hitch-hiked between areas, no observations. Late arrival at Bay eliminated some possibilities. Eared grebe, 2; western grebe, 3; pied-billed grebe, 9; great blue heron, 3; Am. bittern, 1; whistling swan, 11; mallard, 150; baldpate, 6; pintail, 26; ring-necked duck, 58; canvas-back, 143; lesser scaup, 1; ruddy duck, 25; unidentified ducks, 400; red-tailed hawk, 4; marsh hawk, 1;

sparrow hawk, 4; ring-necked pheasant, 1; Fla. gallinule, 1; coot, 245; killdeer, 2; Wilson's snipe, 1; long-billed curlew, 2 (15 reported); willet, 1; lesser yellow-legs, 2; red-backed sandpiper, 5; dowitcher, 4; western sandpiper, 5; Calif. gull, 1; Bonaparte's gull, 1; unidentified gulls, 200; Anna's hummingbird, 3; red-shafted flicker, 15; Calif. woodpecker, 12; hairy woodpecker, 1; black phoebe, 12; Calif. jay, 25; chestnut-backed chickadee, 36; plain titmouse, 14; bush-tit, 186; white-breasted nuthatch, 3; creeper, 1; wren-tit, 10; Bewick's wren, 6; long-billed marsh wren, 2; mockingbird, 2; robin, 17; varied thrush, 5; hermit thrush, 13; western bluebird, 11; golden-crowned kinglet, 7; ruby-crowned kinglet, 14; Am. pipit, 113; cedar waxwing, 244; Calif. shrike, 6; Hutton's vireo, 2; Audubon's warbler, 80; Townsend's warbler, 2; English sparrow, 1; western meadowlark, 27; Brewer's blackbird, 51; Calif. purple finch, 13; house finch, 55; willow goldfinch, 14; green-backed goldfinch, 14; goldfinch (sp.?), 41; spotted towhee, 2; brown towhee, 10; savannah sparrow, 6; Oregon junco, 87; white-crowned sparrow, 92; golden-crowned sparrow, 21; song sparrow, 9. TOTAL, 70 species; 2599 individuals.—BEN B. COFFEY, JR. (Tenn. Orn. Soc.).

SACRAMENTO NATIONAL WILDLIFE REFUGE, WILLOWS, CALIF. (same area as 1940 and subsequent counts; marsh and water areas, rice fields, willow thickets, and open fields).—Dec. 31; 8 A.M. to 5 P.M. Light clouds; wind N, light; temp. 32° at start, 50° at return. Two observers separate. Total hours afield, 12; total miles, 65 (62 by car, 3 on foot). Pied-billed grebe, 11; white pelican, 39; Farallon cormorant, 4; great blue heron, 52; Am. egret, 9; snowy egret, 6; black-crowned night heron, 293; Am. bittern, 2; whistling swan, 1136; Canada goose, 19; lesser Canada goose, 10,050; cackling goose, 21,241; white-fronted goose, 39,623; lesser snow goose, 100,425; Ross's goose, 62; mallard, 109,900; gadwall, 2; baldpate, 370,150; pintail, 2,310,700; green-winged teal, 804; cinnamon teal, 29; shoveller, 6635; Am. golden-eye, 2; ruddy duck, 76; Am. merganser, 7; wood duck, 3; white-tailed kite, 1; sharp-shinned hawk, 1; red-tailed hawk, 10; buteo (sp.?), 4; golden eagle, 1; marsh hawk, 13; prairie falcon, 1; duck hawk, 1; sparrow hawk, 6; valley quail, 24; sandhill crane, 39; ring-necked pheasant, 209; Florida gallinule, 2; coot, 605; killdeer, 2; long-billed dowitcher, 6; avocet, 3; Calif. gull, 25; ring-billed gull, 3; mourning dove, 2; burrowing owl, 6; short-eared owl, 1; red-shafted flicker, 17; Nuttall's woodpecker, 2; crow, 4; ruby-crowned kinglet, 6; loggerhead shrike, 9; English sparrow, 250; western meadowlark, 149; red-wing, 50,500; Brewer's blackbird, 250; green-backed goldfinch, 260; Gambel's sparrow, 250; song sparrow, 6. TOTAL, 59 species and subspecies; about 3,023,948 individuals. Large numbers of waterfowl estimated.—PETER J. VAN HUIZEN, HARRY E. WEHR.

SALINAS (MONTEREY CO.), CALIF. (El Toro Creek, junction of Monterey Highway and San Benancio Road, 10 miles northwest to Moss Landing; willow area near creek 45%, scrub oak 10%, slough 30%, salt marsh 15%).—Dec. 31; 9 A.M. to 4 P.M. Clear; temp. 52° at El Toro Creek, no wind;

cooler at coast, light breeze 1-7 m.p.h. Two observers together. Total hours, 7; total miles, 5 (on foot); about 10 miles between observation points by transportation. Western grebe, 12; white pelican, 53; brown pelican, 9; cormorant, 1; Am. egret, 3; ruddy duck, 10; cinnamon teal, 8; scaup, 5; hawk (sp.?), 2; coot, 15; killdeer, 86; avocet, 6; gull (sp.?), 57; ground dove, 1 [no details—Ed.]; red-shafted flicker, 4; downy woodpecker, 1; Calif. woodpecker, 1; Calif. jay, 5; titmouse, 6; chestnut-backed chickadee, 3; bush-tit, 20; wren-tit, 1; ruby-crowned kinglet, 5; Townsend's warbler, 1; Audubon's warbler, 18; myrtle warbler, 7; blackbird (sp.?), 45; meadowlark, 12; purple finch, 14; goldfinch, 6; spotted towhee, 12; Nuttall's sparrow, 25; savannah sparrow, 8. TOTAL, 33 species; about 462 individuals.—CHARLES ANDERSON, VIOLA ANDERSON.

SAN DIEGO, CALIF. (San Diego to Sweetwater Reservoir).—Dec. 21; 8 A.M. to 5:30 P.M. Clear in morning, hazy in afternoon; no wind; average temp. 67°. Six observers in 2 parties. Total hours afield, 19; total party miles, 80 (10 on foot, 70 by car). Horned grebe, 5; eared grebe, 31; western grebe, 202; pied-billed grebe, 5; white pelican, 30; brown pelican, 33; Farallon cormorant, 41; great blue heron, 17; Am. egret, 140; snowy egret, 58; black-crowned night heron, 9; black brant, 600; baldpate, 1850; pintail, 849; green-winged teal, 4; cinnamon teal, 6; shoveller, 256; canvas-back, 2; lesser scaup, 1660; buffle-head, 41; surf scoter, 2162; ruddy duck, 26; red-breasted merganser, 7; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; ferruginous rough-leg, 1; marsh hawk, 6; prairie falcon, 1; sparrow hawk, 18; valley quail, 12; light-footed rail, 3; Florida gallinule, 2; coot, 670; snowy plover, 37; semipalmated plover, 2; killdeer, 56; black-bellied plover, 60; surf-bird, 15; black turnstone, 15; Wilson's snipe, 1; long-billed curlew, 7; Hudsonian curlew, 1; spotted sandpiper, 2; willet, 712; lesser yellow-legs, 1; greater yellow-legs, 51; knot, 1; least sandpiper, 1025; red-backed sandpiper, 1; dowitcher, 41; western sandpiper, 1530; marbled godwit, 740; sanderling, 103; avocet, 106; glaucous-winged gull, 5; western gull, 509; herring gull, 6; Calif. gull, 2062; ring-billed gull, 3706; Bonaparte's gull, 1; Heermann's gull, 4; Forster's tern, 277; royal tern, 5; mourning dove, 57; road-runner, 1; burrowing owl, 2; Anna's hummingbird, 4; belted kingfisher, 1; red-shafted flicker, 7; Cassin's kingbird, 7; black phoebe, 23; Say's phoebe, 18; horned lark, 10; Calif. jay, 8; bush-tit, 24; wren-tit, 5; San Diego wren, 1; tule wren, 2; mockingbird, 14; Calif. thrasher, 2; robin, 2; hermit thrush, 2; western bluebird, 16; western gnatcatcher, 3; ruby-crowned kinglet, 1; Am. pipit, 13; cedar waxwing, 40; Calif. shrike, 31; dusky warbler, 1; Audubon's warbler, 413; tule yellow-throat, 2; English sparrow, 8; western meadowlark, 45; San Diego red-wing, 807; Brewer's blackbird, 750; dwarf cowbird, 50; purple finch, 2; house finch, 205; green-backed goldfinch, 5; San Diego towhee, 1; Calif. towhee, 13; savannah sparrow, 25; Belding's sparrow, 3; large-billed sparrow,

5; vesper sparrow, 8; lark sparrow, 4; rufous-crowned sparrow, 2; Gambel's sparrow, 132; song sparrow, 6. TOTAL, 110 species and subspecies; about 22,615 individuals. (Dec. 20: Louisiana heron, 1).—CLINTON G. ABBOTT, GEORGE DEHNEL, EUGENE HILL, LAURENCE M. HUEY, KARL W. KENYON, JAMES SAMS.

SAN FRANCISCO, CALIF. (Marina and Fine Art's Pool, Laurel Hill, Lincoln Park, Sutro Heights, Seal-rocks and Ocean Beach, Golden Gate Park, Lake Merced, Bay View Park and Hunter's Point; ocean beach 10%, bay shore [with salt marsh and mud flats] 10%, park 60%, fresh-water pond and marsh 10%, open fields 5%, chapparal 5%).—Dec. 17. Sunny, but partially overcast at times; temp. 45° to 60°; wind SE, 5-9 m.p.h., cool. Twenty-four observers in 7 parties. Total hours, 51½ (49 on foot, 2½ by car); total miles 51 (43 on foot, 8 by car). Pacific loon, 5; red-throated loon, 1; Holboell's grebe, 1; eared grebe, 8; western grebe, 56; pied-billed grebe, 20; brown pelican, 17; double-crested cormorant, 18; Brandt's cormorant, 27; great blue heron, 1; Am. egret, 2; Hutchin's goose, 3; mallard, 773; baldpate, 158; pintail, 11; shoveller, 14; redhead, 3; ring-necked duck, 83; canvas-back, 182; scaup (sp.?), 91; Am. golden-eye, 5; white-winged scoter, 11; ruddy duck, 95; red-breasted merganser, 4; sharp-shinned hawk, 1; Cooper's hawk, 1; red-tailed hawk, 3; red-bellied hawk, 1; sparrow hawk, 7; Calif. quail, 165; Am. coot, 429; black-bellied plover, 6; surf-bird, 11; black turnstone, 24; spotted sandpiper, 2; willet, 170; red-backed sandpiper, 2; marbled godwit, 9; sanderling, 48; glaucous-winged gull, 248; Calif. gull, 2161 (461 counted, 1700 est.); ring-billed gull, 38; short-billed gull, 14; Bonaparte's gull, 75; Anna's hummingbird, 59; belted kingfisher, 2; red-shafted flicker, 18; downy woodpecker, 2; black phoebe, 8; Calif. jay, 8; raven, 3; chestnut-backed chickadee, 52; bush-tit, 34; white-breasted nuthatch, 1; red-breasted nuthatch, 9; brown creeper, 9; Bewick's wren, 1; robin, 46; varied thrush, 4; hermit thrush, 23; golden-crowned kinglet, 131; ruby-crowned kinglet, 109; Am. pipit, 43; loggerhead shrike, 4; Hutton's vireo, 5; Audubon's warbler, 152; Townsend's warbler, 50; yellow-throat, 3; English sparrow, 120; western meadowlark, 3; Brewer's blackbird, 182; purple finch, 9; house finch, 113; pine siskin, 3; green-backed goldfinch, 22; spotted towhee, 15; slate-colored junco, 1; Oregon junco, 228; white-crowned sparrow, 458; golden-crowned sparrow, 61; fox sparrow, 44; song sparrow, 59; TOTAL, 82 species and subspecies; approximately 7275 individuals.—R. ANDERSON, P. ALTROCCI, ENID AUSTIN, P. BAUKOL, FRANCIS BLAKE, DONALD BROCK, MRS. DAVID BRUCE, CHARLES BRYANT, DOROTHY CHANDLER, MARY COURTRIGHT, VEE CURTIS, RUTH ELWONGER, MONICA GOEN, JACK HEYNEMAN, JUNE KELLEY, JOAN KIRK, HERMAN V. LEFFLER, IVANDER MACIVER, H. MCGUCHIN, MICHAEL MOTE, ARTHUR H. MYER, MRS. OTIS SMITH, R. W. STORER, LT. BEN B. COFFEY, U.S.A.A.C., Memphis, Tenn., visitor (Audubon Association of the Pacific).